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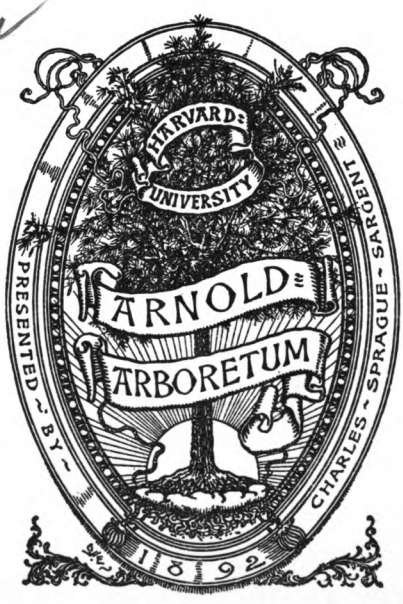

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RECENT ADDITIONS

TO THE

FLORA OF IRELAND:

BEING A FIRST SUPPLEMENT

TO THE

CYBELE HIBERNICA.

BY

A. G. MORE, F.L.S., M.R.I.A.

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DUBLIN:
PRINTED AT THE UNIVERSITY PRESS,
BY M. H. GILL.
1872.

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RECENT ADDITIONS

TO THE

FLORA OF IRELAND,

&c., &c.

THE present Paper originated in a desire to review the progress that has been made during the past six years in investigating the localities and distribution of Irish Plants; and I have, therefore, with the help of my friend and partner, Dr. Moore, put together in a connected form the several items of information which have accumulated up to this time, from various sources, and which, together with the results of our own occasional excursions, will furnish a tolerably complete record of what has been done since the summer of 1866, when our book, the "Contributions towards a Cybele Hibernica" appeared.

In a country so well known as Ireland, that has been searched botanically, since the time of Threlkeld and Patrick Browne, by Templeton, Wade, Drummond, Mackay, &c., and in our own day by other resident as well as travelling botanists, it cannot be expected that many flowering plants remain to be added to the Flora. It is rather in the regular and systematic survey of the country, in the more exact and critical discrimination of species, and in the study of the introduced plants that advance may be looked for. That the last few years have not been altogether barren of results will be evident when we come to recapitulate the various *addenda*.

For the long list of new plants and new localities which I now have the pleasure to lay before the Academy, we are in great measure indebted to the diligence and kindness of the numerous friends who have continued to entrust us with the result of their observations; and we are glad to think that among them are some whose attention and interest were perhaps first awakened, or at least directed to a profitable end, by the use of our Cybele Hibernica.

Foremost among those to whom we are thus indebted are:—

Mr. R. Clayton Browne, jun., of Browne's Hill, who has contributed a number of localities from the County of Carlow, etc., and has thus

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filled up many of the *desiderata* in district iii. He is also the first botanist who has noticed *Crepis setosa* in Ireland.

The Rev. T. Allin, of Avoncore, has devoted much time and attention to the plants of Cork, and even in that well examined district has discovered many new localities, and some plants previously unknown in the county. Among them, *Rumex maritimus* and *Mentha sylvestris* deserve especial mention.

Mr. S. A. Stewart, of Belfast, has continued his diligent and careful observations, and besides numerous new stations, has found *Valerianella carinata* and *Acorus Calamus* in the North of Ireland: and *Sclerochloa procumbens* (one of the rarest Irish plants) in the very town of Belfast.

Mr. H. C. Hart has sent us some valuable notes of his many botanical rambles in Donegal, and he has also placed at our service a very full catalogue of the plants of the Southern Isles of Aran, the most complete that we have seen. He has also found *Brassica adpressa* for the first time in Ireland, and rediscovered *Alyssum calycinum* at Portmarnock.

Mr. J. Morrison, of Spring-hill, Enniscorthy, has kindly allowed us to examine his Herbarium, in which we have found, together with many other interesting plants, Irish specimens of *Oxalis stricta*, *Geranium nodosum*, *Erythræa pulchella*, and *Cochlearia anglica*.

Mr. R. M. Barrington, of Fassaroe, has supplied many localities from Wicklow and Waterford, and we are indebted to him for ascertaining that *Cuscuta trifolii* is permanently established as a colonist in the clover fields about Fassaroe.

Mr. Dowd, of the College Botanic Garden, has largely contributed towards filling up the list of district vii., and has found, for the first time in Ireland, *Malva borealis*, *Berteroa incana* and *Centaurea paniculata*. He also, with Professor E. P. Wright, has been the first to ascertain the immense and surprising abundance of *Sisyrhynchium Bermudiana* over the low meadows lying between Woodford and Lough Derg, in some of which it actually constitutes a large proportion of the hay crop. Our reasons for still continuing to doubt the nativity of this plant in Ireland will be found fully given in the latter portion of this Paper. It will suffice here to say that a plant which has quite recently become established, with every appearance of a native, in Queensland, Australia, and also near Christchurch, in the South of England, may in Ireland have had a similar origin, and therefore cannot any longer be cited with confidence as indicating a former connexion between the American and Irish Floras.

From the Rev. S. A. Brenan, the Rev. S. Madden, Mr. John Douglas, Miss E. M. Farmer and others, we have received continual and most useful contributions. Besides these sources of private information, we have freely drawn upon Seemann's, now Trimen's, "Journal of Botany," and availed ourselves of the information given by Dr. Sigerson, Dr. E. P. Wright, Mr. S. A. Stewart, Mr. R. Tate, Mr. W. Andrews, Mr. G. H. Kinahan, and the late Mr. F. J. Foot in their published papers, the titles of which will be fully quoted hereafter.

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In a copy of Threlkeld's "Synopsis Stirpium Hibernicarum," belonging to the Royal Irish Academy, are a few MS. notes left by some former owner, from which we have extracted those that seemed sufficiently important. One of these memoranda supplies a probable clue to the author of the list of plants in Harris's "Down," whose name appears to have been Isaac Butler.*

Last, but not least, we gratefully acknowledge the kindness of Dr. R. Templeton, Deputy Inspector-General of Hospitals, who has most liberally favoured us with the loan of the MS. "Catalogue of the Native Plants of Ireland," which was drawn up between 1794 and 1810 by his father, the eminent naturalist, John Templeton of Belfast.

In enumerating the plants added to the Irish Flora since 1866, it will be convenient to arrange them under the following heads:—

Summary of Additions.

Undoubted natives, 8.

Trifolium subterraneum, E.	Salix Grahami, N. W.
Trifolium glomeratum, E.	*Draba rupestris, N. W.*
Scirpus parvulus, E.	*Galium cruciatum, N. E.*
Aira uliginosa, W.	*Pyrola rotundifolia, Midl.*

Of these the last three, printed in italics, have before now been recorded as Irish, though in 1866 we did not think that there was sufficient authority for their admission as such.

All eight are well known to occur in Great Britain, but at the time when first found in Ireland neither *Scirpus parvulus* nor *Aira uliginosa* had been gathered for many years.

Two of the eight are Western and Alpine, thus showing that something may yet remain to be done in the mountain botany of this country.

Four are Eastern, three of them having been found on the coast of Wicklow, within a short journey from Dublin. Of these, *Trifolium glomeratum* is the only species of our present *addenda* which belongs to Watson's Germanic or South-eastern type.

Draba rupestris is given in the seventh edition of Withering's "Botanical Arrangement," as found plentifully in Leitrim and Sligo by Mr. E. Murphy; but as *Draba incana* was not recorded by Mr. Murphy, though it is abundant on these mountains, while *D. rupestris* is very scarce, there is reason to fear a mistake was made in the name.

Galium cruciatum, long ago recorded in Harris's "Ancient and Modern state of the County of Down," as occurring near the Cathedral at Downpatrick, had quite escaped our notice, as it had that of Mackay; but having ascertained that it still grows in this locality, and has recently been found at Colebrooke, Fermanagh, we are very glad to restore it to its proper place in the Flora.

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* A Botanist, and maker of Astrological Almanacks, who died in 1756.

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Pyrola rotundifolia was included in How's "Phytologia Britannica" so long ago as 1650, as having been found by Mr. Heaton in a bog by Roscrea, in the King's County, a locality not yet verified, but which may prove correct, though in all other instances, except at Multyfarnham, we have satisfied ourselves that either *P. media* or *P. minor* have been gathered in the alleged Irish localities for *P. rotundifolia.*

Natives, but doubtful as species 3.

Thalictrum Kochii Epilobium tetragonum (verum.)
Potamogeton Lonchites.

The first two are critical plants, and would no doubt be classed as varieties by a great many botanists. *Potamogeton Lonchites* (Tuck) is a new name applied by Dr. Boswell Syme to the *Potamogeton* from the River Boyne, which we referred doubtfully to *P. heterophyllus;* and if correctly identified with the American species, this is one more American plant occurring in Ireland, though found nowhere else in Europe: but it is difficult to feel quite sure, when dealing with a genus of plants so variable and so little understood as the *Potamogetones.*

Plants probably introduced, 3.

Erysimum cheiranthoides. Mentha sylvestris.
Tamus communis.

The first two have already been admitted in the works of Mackay and others; but we now for the first time are able to give satisfactory localities. It is surmised that *Tamus communis* was planted at Hazlewood by the late Mr. Wynne.

Plants certainly introduced,

But well established in the wild state, 3:—

Acorus Calamus. Hippophae rhamnoides.
Cuscuta Trifolii ("Colonist,")

the first two having been planted, the last accidentally sown when mixed with agricultural seeds. Though planted at Courtown, it is barely possible that *Hippophae* may be native on the sandhills further south, according to what we hear from Mr. J. Morrison.

Casuals.

That is, plants certainly introduced by man, and which cannot be considered permanent additions to the Flora, being waifs and strays

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from cultivation, or weeds springing from seeds conveyed by accident, 14:—

Cardamine impatiens.	Valerianella carinata.
Brassica adpressa.	Crepis setosa.
Berteroa incana.	Centaurea paniculata.
Malva borealis.	Carduus setosus.
Geranium nodosum.	Campanula rapunculoides.
G. phæum.	Mentha Requienii.
Oxalis stricta.	Cynosurus echinatus.

Nearly all these are, no doubt, recent introductions, and most of them will probably disappear in the course of a few seasons. *Valerianella carinata* and *Crepis setosa* may possibly establish their hold on the ground, and thus in time become entitled to rank as "Colonists."

Thus there are thirty-one plants, which, after deducting casuals and a few that have before been borne on the Irish list, will leave at least twelve species to be reckoned as genuine additions to the Flora; and this I think is no inconsiderable result, and far exceeds the additions made to the English and Scottish Floras within the same time. Still, this scarcely increases the total number, as we have on the other hand to deduct ten plants, viz.:

SPECIES TO BE REMOVED FROM THE LIST.

?Brassica oleracea. Not a native, and nowhere well established.
Genista tinctoria. Not to be found at Killiney, some error?
?Chrysosplenium alternifolium. Thought to have been planted near Belfast, and we fear that the other stations are erroneous.
Campanula latifolia. *C. Trachelium* mistaken for it.
?Arctium majus. Name doubtful, as the only specimen is imperfect.
Calamintha Nepeta. Was *C. officinalis*.
Chenopodium intermedium. Now thought to have been *C. murale*.
Salix procumbens. Was *S. phylicifolia*.
Potamogeton lanceolatus. Was a form of *P. polygonifolius*.
Eriophorum alpinum. Some error, or change of specimens.

Among the discoveries of localities for scarce plants not new to the Flora, we have:

Neotinea intacta. Found by D. Moore on the shores of Lough Corrib in Mayo, associated with *Ophrys apifera*, *Potentilla fruticosa*, and other species characteristic of the Burren District, and therefore leading us to expect the discovery of this rare little orchid in other localities intermediate between Cong and Castle Taylor.

Rumex maritimus. Found by the Rev. T. Allin in Cork, this being the second Irish locality.

Arundo Epigejos. Gathered by Mr. H. C. Hart in Great Aran Island, this making the third locality in Ireland.

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Diotis maritima. Found at Carnsore Point, Wexford, by Mr. J. Waddy. A new station for one of the scarcest British plants.

Equisetum trachyodon (*Mackaii* Newm.) at Blarney, and

Callitriche autumnalis at Killarney, both unexpectedly found to range to the South of Ireland.

Eriophorum latifolium at Roundstone. Range of a very local species extended to the West of Ireland.

Helminthia echioides. Range extended northwards to Antrim, and another instance of a local southern species occurring in north-east Ireland.

Adiantum Capillus-veneris. Limerick, Mayo, and Donegal added to the few counties in which this very local Fern has been found.

Poa compressa. Ballycastle and Portadown, two new districts for a very scarce grass.

Sclerochloa procumbens, Belfast, previously collected at Cork only. *Galium uliginosum, Erythræa pulchella, Carex axillaris.* New localities for three scarce plants, of which we had previously seen no Irish specimens.

The extension and increase of alien weeds is illustrated by the spread of—

Anacharis Alsinastrum.	Diplotaxis muralis.
Veronica Buxbaumii.	Melilotus officinalis.
V. peregrina.	Rumex pulcher.
Crepis taraxacifolia.	Sisymbrium Irio.

To these we may perhaps add:

Sisyrhynchium Bermudiana.	Orobanche minor.
Cuscuta Trifolii.	Valerianella carinata.

While as examples of decrease we have:

Carex Buxbaumii.	Eriophorum latifolium.
C. paradoxa.	Euphorbia Peplis.
Lathyrus palustris.	Trichomanes radicans.
Arundo stricta.	Erica ciliaris.

Some of these have suffered from drainage and the reclamation of bogs, and through the recent operations of lowering the level of several of the large lakes. *Euphorbia Peplis,* from inroads of the sea or changes in the beach, while the decrease of *Trichomanes* alone is to be attributed to the unscrupulous depredations of plant-collecting tourists.

We now proceed to enumerate the localities in regular order, premising that whenever the word "District" is placed before a numeral, it indicates that the plant is an addition to the Flora of that province.

* *Clematis Vitalba* (Linn.) District 4. Sandhills at Courtown, Wexford, growing with *Hippophae rhamnoides,* sparingly; A. G. M.

Thalictrum alpinum (Linn.)—8. Rocks on the mountain above Kylemore Castle, Connemara; D. M.

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T. minus (Linn.) *var. maritimum.*—4. Kiltennel, Wexford; Miss E. M. Farmer. Sandhills, a little north of Arklow; A. G. M.

T. minus (Linn.) *var. montanum.*—12. On Slieve Donard; S. A. Stewart. This is probably the plant mentioned in "Flora Hibernica" under the name of "*T. majus.*"

T. Kochii (Fries). District 8. Shores of Lough Conn, Mayo; A. G. M.

T. flexuosum (Bernh.) District 1. Islands in the lower Lake of Killarney; A. G. M.

Ranunculus pseudo-fluitans (Syme).—12. River Bush, and River Bann; S. A. Stewart and R. Tate. Mr. W. P. Hiern refers the plant from Chapelizod to his form "*R. penicillatus*" of Dumortier, this differing from the restricted *pseudo-fluitans* by producing floating leaves.

R. cœnosus (Guss.)—4. Clohass bog, Wexford; Miss E. M. Farmer. Roundwood, Glenmalure, Lough Dan, Glen Cree, etc.; common in Wicklow; A. G. M.

R. hederaceus (Linn.) District 10. Ballyskeagh, Tyrone; Dr. Sigerson.

R. Lingua (Linn.)—2. Youghal Bay; Rev. T. Allin.—8. Lake near Letterfrack, Connemara; D. M.—10. Abounds in the lakes near Drum, Clones; J. Bain.

R. acris (Linn.) The mountain form appears to be *R. Friesianus* (Jordan), and was gathered lately on Ben Bulben, Sligo, by D. M. and W. T. Dyer, and in the Horse's Glen, Mangerton, A. G. M. The ordinary plant in Ireland is *R. tomophyllus* (Jordan.)

‡ *R. arvensis* (Linn.)—12. Formerly found by Templeton at Agnew's Hill, and at Inver, near Larne, but was considered introduced; *T. Hincks* (in Ann. Nat. Hist. 1841.)

R. parviflorus (Linn.)—2. Near Middleton and East Ferry, Cork; Rev. T. Allin.—5. In a cottage garden near Prumplestown, south of Kilkea, Kildare; J. Douglas.

Caltha palustris (Linn.) var. *Guerangerii*, Bor; District 9. In Glen Iff, north side of Ben Bulben; W. T. Dyer.

Aquilegia vulgaris (Linn.)—2. Mr. T. Allin considers it probably native in North Cork.—6. Near Kilmurry, Great Aran Island; H. C. Hart. Among gorse by the stream between Woodford and Lough Derg; M. Dowd. District 7. Plentiful over a large field at Rutland, near Swinton, King's Co.; Miss E. M. Farmer.

[*Delphinium Ajacis* (Gay). A single plant in sandy arable ground at Portmarnock, 1869; A. G. M.]

Papaver Argemone (Linn.)—2. Railway embankment at Middleton; Rev. T. Allin.—4. Plentiful on the shore near Wicklow; A. G. M. —5. On a bank near Merrion shore; Annotator in Threlkeld, R. I. A. Library.

P. hybridum (Linn.)—5. Skerries; A. G. M.

P. dubium (Linn.) var. *Lecoqui* (Lam.)—5. On sandy banks at Baldoyle, with both white and yellow sap; W. T. Dyer and A. G. M.

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Meconopsis cambrica (Vig.)—3. Wilton, Kilkenny; Rev. S. Madden.—5. Only escaped or planted in this district. District 10. Ballyskeagh hill, Tyrone; Dr. Sigerson.

Glaucium luteum (Scop.) District 6. Middle Island of Aran, Galway; H. C. Hart.

Corydalis claviculata (D. C.)—4. Bray Head! and wood at Luggielaw; Templeton.

Fumaria confusa (Jord.) District 4. Near Wicklow; A. G. M.

Nasturtium palustre (D. C.)—1. Marshy ground on Ross Island, Killarney; H. C. Hart.—2. Buttevant and Kanturk, not rare in North Cork; Rev. T. Allin. District 3. Near Fenagh, Carlow; R. Clayton Browne. District 4. Frequent about Enniscorthy; J. Morrison.

Obs. Cardamine impatiens (Linn.) Dr. E. P. Wright has drawn our attention to a specimen gathered by the Rev. W. M. Hind at Shane's Castle, and preserved in the British Herbarium at Trinity College, from which it appears that Mr. Hind's record of this species in the "Phytologist" was quite correct: but our careful correspondent, Mr. S. A. Stewart, has not succeeded in discovering this plant, and thinks, from the nature of the locality, that it may have been introduced. Hence we feel compelled for the present to leave its claims to a place in the Irish Flora undecided.

**Hesperis matronalis* (Linn.)—4. Formerly plentiful and apparently wild at Rockmount, between Ferns and Enniscorthy; J. Morrison. —9. Plentiful in the woods at Rockingham, Roscommon; D. M. This perhaps deserves to be considered permanently naturalized.

Sisymbrium officinale (Scop.) District 6. Aran; E. P. Wright. District 7. Parsonstown; M. Dowd.

‡*S. Irio* (Linn.)—5. Roadsides south of Rathfarnham, Milltown, and Clonskeagh; A. G. M.

†*S. Sophia* (Linn.)—5. Sandhills by the Creek at Donabate, and on the south shore of the estuary below Drogheda; possibly introduced in all the Irish localities; A. G. M.

Alliaria officinalis (Andrz). District 7. Here and there in the woods about Parsonstown; M. Dowd. District 10. Enniskillen, Fermanagh; plentiful; S. A. Stewart.

**Erysimum cheiranthoides* (Linn.) District 7. In cultivated land and waste ground along the road for two miles between Parsonstown and Portumna, in Galway, and in the adjoining part of Tipperary; M. Dowd.

[*Brassica adpressa* (Boiss.) *Sinapis incana* (Linn). A single plant at Portmarnock, 1867; H. C. Hart.]

†*Sinapis nigra* (Linn.) 4. Frequent in waste ground about Enniscorthy; J. Morrison. 12. Cultivated fields on the Curran of Larne; D. M. District 6. In cultivated ground and by waysides about Killeany, Aran; H. C. Hart.

S. alba (Linn.) District 3. Near Carlow; J. Morrison.—6. Killeany, Aran; H. C. Hart.

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‡ *Diplotaxis muralis* (D. C.) District 2. Waterford; omitted in the line of figures.

[*Alyssum calycinum* (Linn.) Rediscovered at Portmarnock by Mr. H. C. Hart in 1867, and observed growing there sparingly in two small fields, from 1868 to 1872.]

[*Berteroa incana* (D. C.) *Alyssum incanum* (Linn.) A single plant at Portmarnock, in 1869; M. Dowd.]

Draba rupestris (R. Br.) District 9. Very sparingly on the north side of Ben Bulben, 1871; D. M. and W. T. Dyer. This plant was announced as Irish by Mr. W. Andrews in 1845 (London Journal of Botany, iv.), and had been previously recorded by the late Mr. Murphy, in the seventh edition of Withering's "Botanical Arrangement," as plentiful on the limestone mountains of Leitrim and Sligo; but as no mention is there made of *D. incana*, which is frequent on Ben Bulben, it must remain doubtful whether that record was not erroneous.

D. incana (Linn.) District 8. In great luxuriance on the southern shores of Lough Mask; F. J. Foot.

Cochlearia officinalis (Linn.) District 6. Aran; Dr. E. P. Wright.

C. danica (Linn.) District 6. On a ruin near Kilmurry, Aran; H. C. Hart.

C. anglica (Linn.) District 4. In a salt marsh near Ferrycarrick Bridge, on the estuary of the Slaney! J. Morrison. District 6.? Near Limerick, leaves only; I. Carroll.—10.? At Cloghcor, on the banks of the Foyle, but not in fruit; Dr. Sigerson. The Irish plant is identical with *C. anglica* as found in the North-west of England, and differs considerably from the *var. didyma* which occurs in the South of England. Only *C. officinalis* grows on Killiney Hill.

†*Thlaspi arvense* (Linn.)—5. Near Navan and Nurney, Meath. Annot. in Threlkeld, apud R. I. A.

Lepidium Smithii (Hook.)—4. Frequent in Wicklow, near Arklow, etc.; A. G. M. Gorey, Wexford, A. G. M. Bloomfield, near Enniscorthy; Miss E. M. Farmer.—5. Mullaghcreelan Hill, Kildare, sparingly; J. Douglas.

Subularia aquatica (Linn.)—12. Shores of Lough Beg, Derry; S. A. Stewart.

‡*Senebiera didyma* (Pers.)—1. At Dingle, Kerry; A. G. M.—3. At Kilmacow, Kilkenny; T. Chandlee. On a footpath at Carlow; J. Douglas.—4. Churchyard at Bannow, Wexford; R. M. Barrington. —5. Roadside at Donnybrook; V. A. Smith. Near the Canal at Ball's Bridge; A. G. M.—6. Plentiful at Limerick; D. M. Abundant at Gort; M. Dowd.

Crambe maritima (Linn.) District 4. On the Murrough of Wicklow; Annot. in Threlkeld, apud R. I. A. A few plants by the railway near "the Breaches;" 1868-70; H. C. Hart.—5. Railway bank near Killiney; R. M. Barrington.

Raphanus maritimus (Sm.) District 4. Ballyconigar, Wexford; J. Morrison.

†*Reseda lutea* (Linn.)—5. Sandy field by the shore near Gormans-

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town, Meath; A. G. M. District 6. Waste ground S. E. of Killeany, Aran; H. C. Hart.

[*R. suffruticulosa* (Linn.) Shore at Newcastle, Down; Lord Clermont.]

†*Viola odorata* (Linn.)—4. Ballycarney, and by the Slaney, etc. in Wexford, where it appears indigenous; Miss E. M. Farmer. —5. Common on hedgebanks about Kilkea, Kildare, with both white and blue flowers; J. Douglas.

V. hirta (Linn.)—5. Sandhills at Portraine, opposite Malahide; A. G. M. 6. Sloping ground above Killeany, Aran; A. G. M.

V. canina (Linn. et Fries). District 2. Near St. Ann's, Blarney, (Mr. R. Mills); Rev. T. Allin.—8. A closely tufted upright form with blunt leaves occurs on the mountain slopes above Kylemore Lake; D. M.

Viola lutea (Linn.) District 4. On the banks of the King's River near Lackan, Wicklow! H. W. D. Dunlop. District 10. In the mountainous country near Bealyborough (Bailieborough.) Annot. in Threlkeld, apud R. I. A. The plant of the sandhills at Roundstone belongs rather to *V. Curtisii*.

V. Curtisii (Forst.)—1. Sands at Inch point, Kerry; A. G. M. District 4. Balliconigar, Wexford; J. Morrison. Sandhills from Courtown, Wexford, to Arklow and northwards; A. G. M. District 5. On the North Bull, Dublin, Baldoyle, Portmarnock, Portraine, Rush, Gormanstown to near Drogheda; A. G. M. District 6. Near Kilronan, Aran; H. C. Hart. District 8. Roundstone; A. G. M. We now include under *V. Curtisii* the sandhill Pansies of both east and west coasts.

V. tricolor (Linn.) District 7. Parsonstown; M. Dowd.

Drosera intermedia (Hayne). District 11. Near Lough-an-ure, Donegal; N. Moore, Rosses; H. C. Hart.

D. anglica (Huds.) District 2. On Bluefort Bog, Newmarket; Rev. T. Allin.

Polygala depressa (Wend.) District 10. Knockavoe and near Strabane; Dr. Sigerson.—12. Black mountain near Belfast, and bogs near Toome; S. A. Stewart.

Elatine hexandra (D. C.)—1. Lough Carra, Kerry; W. Andrews.

Silene anglica (Linn.)—1. Shepperton and at Lissard, Cork; Rev. T. Allin. District 5. Sandy fields at Portmarnock, 1869; H. C. Hart. —12. By the new road to the Ferry, Bellaghy, Derry; S. A. Stewart.

Silene inflata (Sm.) District 11. Near Mulroy Lake; H. C. Hart. Near Horn Head; N. Moore.

S. maritima (With.)—12. Abundant along the basaltic range from Portrush to Craignashoag, Derry, ranging to 1200 feet; D. M.

Lychnis vespertina (Sibth.) District 3. Browne's Hill, Carlow; R. C. Clayton Browne. District 11. Near Lough-an-ure, Donegal; H. C. Hart.

L. diurna (Sibth.)—9. About Ben Bulben, Sligo; D. M.

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Sagina ciliata (Fries). District 4. On the bridge at Arklow, and near the Castle ruin at Wicklow; A. G. M.

S. subulata (Wimm.) District 11. Dunaff Head, Donegal; H. C. Hart.

Honkeneja peploides (Ehrh.) District 6. Aran; H. C. Hart.

Arenaria serpyllifolia (Linn.) District 6. Aran; H. C. Hart. District 7. Parsonstown; M. Dowd.

Arenaria ciliata (Linn.)—9. A specimen preserved in Buddle's Herbarium in the British Museum was collected by Lhwyd near Sligo, probably in 1699 (Seemann's Journal of Botany, 1870, p. 324.)

Stellaria graminea (Linn.) District 11. Glenalla, Donegal; H. C. Hart.

Obs. *Malachium aquaticum* (Fries). The specimen in Cork Institution is attributed to Drummond by Dr. Hincks (Ann. Nat. Hist. 1841), but is not included in Drummond's own list; hence we fear some mistake has occurred.

Cerastium glomeratum (Thuil.) District 11. Killybegs, etc.; H. C. Hart.

C. triviale (Link). District 7. Parsonstown; M. Dowd. District 11. Pettigo and near Lough Derg; S. A. Stewart.

C. arvense (Linn.)—5. On Feltrim Hill and at Donabate; A. G. M. Plentiful on the north side of Lambay Island; R. M. Barrington.

Malva moschata (Linn.)—3. Here and there in Carlow; R. Clayton Browne. In Queen's County; J. Douglas.—4. Near Ovoca station; A. G. M.—5. Near Drogheda; J. B. Hamilton.

[*Malva borealis* (Wallm.) Two plants were found by Mr. M. Dowd in 1869, growing on some rubbish at Donnybrook, near Dublin, evidently introduced by some accident].

Althæa officinalis (Linn.) District (11.) Near Bundoran, 1867; H. C. Hart. Probably an escape from a garden. The natural localities are very few, and careful investigation is required to determine the proper range of this plant in Ireland.

†*Lavatera arborea* (Linn.)—6. Apparently indigenous on the north cliffs of the great Island of Aran, and on Rock Island, the most western of Aran; H. C. Hart.

Hypericum dubium (Leers).—4. Roadside near Cloghamon, Wexford; J. Morrison. Near the station at Ovoca, Wicklow; A. G. M.

H. pulchrum (Linn.) District 10. Castle Derg, Tyrone; S. A. Stewart.

†*Acer campestre* (Linn.) District 9. Hedges about Sligo; D. M.

Geranium pratense (Linn.)—12. Dunluce Castle, and all the north part of Antrim; about Ballintoy; R. Templeton, M. S. On blown sand at Port Bradden; R. Tate. Mr. Tate has confirmed the accuracy of Mr. Templeton's observations, and has found *G. pratense* much more frequent than *G. sylvaticum* on the north coast.

‡*G. pyrenaicum* (Linn.) District 2. Roadside near Charleville, and a single plant in a pasture field near Middleton; Rev. T. Allin.—5. Roadside banks near the Hill of Tara, Meath; A. G. M.

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G. columbinum (Linn.)—2. Near Middleton and Castletown-Roche; Rev. T. Allin.

Geranium rotundifolium (Linn.)—2. Rare about Middleton; Ballyvodock, and near Youghal; Rev. T. Allin. District 5. Rediscovered in 1867 on some old walls at Glasnevin; D. Orr.

[*G. nodosum* (Linn.) Wood at Newtownbarry, Wexford; well-established in 1871; J. Morrison.]

[*G. phæum* (Linn.) Has grown for many years in a neglected avenue near Ballybeg Railway Station, Meath; G. Dawson. At Roxboro', Middleton, remains of cultivation; Rev. T. Allin. By the roadside a mile south of the Church in Island Magee; R. Tate. In all cases introduced.]

Erodium cicutarium (Sm.) District 6. Aran: H. C. Hart.

E. moschatum (Sm.)—1. Many places in West Cork, as Leap, Glandore, Clonakilty, etc.; Rev. T. Allin.—2. Frequent on roadsides near Youghal; ditto.—4. Near Bannow, Wexford; R. M. Barrington.—6. Near Killeany and Kilronan, Aran; H. C. Hart. District 11. Roadside at Rathmullen, Donegal; Rev. T. Allin.

Erodium maritimum (Sm.)—12. Sands at Portrush; S. A. Stewart.

Linum angustifolium (Huds.)—2. Not rare near Youghal; Rev. T. Allin. Railway banks, Waterford; R. M. Barrington. District 3. Near Kilkenny; W. Archer.—4. Bannow; R. M. Barrington. Bloomfield and near Daphne; Miss E. M. Farmer.—5. A little north of Gormanstown, Meath; A. G. M. District 6. Meadows between Woodford and Lough Derg; M. Dowd.

Radiola millegrana (Sm.)—1. Berehaven; A. G. M.—2. Ballintowtas, Middleton; Rev. T. Allin.—11. Common in Fanet; H. C. Hart.

[*Oxalis stricta* (Linn.)—Belfast (G. O'Brien, 1842), Lisnagarvey, near Lisburn, 1850 (S. Pim); Herb. Morrison.]

Rhamnus catharticus (Linn.)—6. In Great and Middle Aran; H. C. Hart. District 5. Monasterevan and District 3. Cottoner's brook by Mountmellick; Annot. in Threlkeld, apud R. I. A.

R. Frangula (Linn.) District 3. Plentifully in Mountmellick bog by Cottoner's Wood, 1732; Annot. in Threlkeld, apud R. I. A.

Ulex (*nanus*) *Gallii* (Planch). Ascends above 2000 feet on Carn Tual, to 1500 or 1600 on Mangerton, thus ranging much higher in the West of Ireland than in England; A. G. M.

Genista tinctoria (Linn.) Has not been rediscovered in the only locality given by Mackay, and we much fear that a dwarf and procumbent state of *Sarothamnus scoparius* which grows on Killiney Hill and at Howth has been mistaken for it.

[*Medicago falcata* (Linn.) Portmarnock; *Flor. Hib.*, but not seen recently. Terminus, York street, Belfast; W. Millen. Evidently introduced. This was intentionally omitted in our book, as having no claim to be considered established.]

‡*Melilotus officinalis* (Willd.)—2. A few plants in a pasture field at Ballinacurra, 1870; Rev. T. Allin. District 4. Roadside opposite a

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mill on the River Urrin, near Enniscorthy; Miss E. M. Farmer.—5. On the mountain side south of Rathfarnham; Annot. in Threlkeld, apud R. I. A. Plentiful along the railway embankment north of Malahide, and here and there about the sandhills at Portraine and Rush; A. G. M. and D. M. Raheny; H. C. Hart.

**M. arvensis* (Willd.)—12. Railway embankment between Kilroot and Whitehead, and between Glynn and Larne, Antrim; R. Tate.

Trifolium arvense (Linn.)—2. Plentiful on Cable Island, Youghal; Rev. T. Allin.—4. Curacloa, Wexford; Miss E. M. Farmer.—5. Sandy ground near Merrion; *Threlkeld.* District 6. Between the Lighthouse and the old Fort in South Island of Aran; H. C. Hart.

T. striatum (Linn.)—5. Abundant on Feltrim Hill, A. G. M. On a headland north of Rush; D. Orr.

T. scabrum (Linn.) District 2. Sands at Fanisk, Youghal; Rev. T. Allin. District 4. Near Newcastle and Killoughter, Wicklow; A. G. M. Between Kilcool and Greystones; H. C. Hart.—5. Killiney; D. M. On the North Bull! and Sutton side of Howth; D. Orr. It is this species rather than *T. striatum* which has been mistaken for *T. maritimum* in Ireland.

T. glomeratum (Linn.) District 4. By the river side near the railway station at Wicklow, growing with *T. subterraneum*, 1869; D. M.

T. subterraneum (Linn.) District 4. By the river side at Wicklow, June, 1867; A. G. M.

T. ornithopodioides (Linn.)—4. On the hill near the Castle ruins at Wicklow; by the river at Wicklow; near the river at Bray; A. G. M.

T. fragiferum (Linn.)—4. Common near the sea in Wexford; Miss E. M. Farmer.—5. Shore at Ballybrack, Dublin, and at Gormanstown and Laytown, Meath; A. G. M.

T. procumbens (Linn.) District 10. Frequent in Tyrone; Dr. Sigerson.

T. filiforme (Linn.)—4. Arklow; A. G. M. District 10. At Tynan Abbey, Armagh; S. A. Stewart.

Lotus corniculatus (Linn.) *var. tenuis.* District 12. Near Glynn, Antrim (S. A. Stewart); R. Tate.

Anthyllis vulneraria (Linn.) District 10. Clogh-cor, Tyrone; Dr. Sigerson. Five-mile town; T. O. Smith.

Vicia hirsuta (Koch). District 6. Woodford, Galway; R. M. Barrington.

V. sepium (Linn.) District 7. Parsonstown; M. Dowd.

V. lathyroides (Linn.) District 11. Dunaff Head, Donegal; H. C. Hart.—12. Warren at Donaghadee, Down; S. A. Stewart.

‡*Prunus insititia* (Linn.) District 10. Artigarvan, Tyrone; Dr. Sigerson.

†*P. avium* (Linn.) District 10. Lower Holy Hill, Tyrone; Dr. Sigerson.

Poterium Sanguisorba (Linn.) District 4. About Fassaroe, near Bray, in several places; R. M. Barrington.

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Agrimonia Eupatorium (Linn.) District 11. Fanet, Mulroy, etc., in Donegal; S. A. Stewart. Carrigart; H. C. Hart.

A. odorata (Mill.) District 4. Near Enniskerry; A. G. M. District 8. Very fine near Clifden, Connemara; never seen by me on the limestone, where *A. Eupatorium* seems to take its place; A. G. M.

Potentilla fruticosa (Linn.) District 9. On the north-east shore of Lough Corrib; D. M.

Rubus idæus (Linn.) District 10. Plentiful in Fermanagh and Tyrone; S. A. Stewart.

R. cæsius (Linn.) District 7. Near Parsonstown; M. Dowd.

Geum rivale (Linn.) Districts 3, 4, 6, 7, 8, 9, 10, 11, 12, which were accidentally omitted.

‡*Pyrus Malus* (Linn.) District 10. Glenmornan and Artigarvan, Tyrone; Dr. Sigerson. District 11. One tree in the Rosses, Donegal; H. C. Hart.

P. Aucuparia (Gaert.) District 10. Glenmornan, Tyrone; Dr. Sigerson.

‡*Epilobium roseum* (Schreb.)—12. First found by Mr. Templeton in his orchard at Cranmore in 1820, but apparently occurs only as a weed or colonist in this district.

E. hirsutum (Linn.) District 10. By Lough Erne near Tempo; T. O. Smith.

Epilobium tetragonum (Linn.) (typical.) District 5. By the roadside west of Carrickmines! Prof. A. Dickson. This is the only locality at present known to us.

E. palustre (Linn.) District 7. Common near Parsonstown; M. Dowd.

Myriophyllum verticillatum (Linn.)—6. Ditch near the bridge at Portumna: S. A. Stewart.

M. alterniflorum (D. C.) District 2. Plentiful in this district, about Middleton, etc.; Rev. T. Allin. District 10. Castle Derg, Tyrone; S. A. Stewart. District 12. Lough Neagh, Glenarm, etc.; R. Tate.

Lepigonum rubrum (Fries). District 4. Strand at Ballyconigar! Wexford; J. Morrison. On Vinegar Hill! H. Robinson.—12. South-east shore of Lough Beg, near Toome; S. A. Stewart. This seems quite rare in Ireland.

L. rupicola (Lebel).—4. Near Arklow and Wicklow; A. G. M. —5. Sandhills north of Rush, a most unusual kind of station; A. G. M. District 8. On many of the Islands off Connemara; A. G. M.

Scleranthus annuus (Linn.) District 11. Roadside between Croaghross and Rossnakill; H. C. Hart.

Sedum Telephium (Linn.)—6. Roadside between Woodford and Lough Derg; M. Dowd.—12. Galgorm, Ballymena; (*S. Fabaria.*) R. Tate.

**Sedum dasyphyllum* (Linn.)—2. At Carrickshean, near Middleton, where it covers a range of limestone hills and appears quite wild; Rev. T. Allin. District 12. On rocks in Glenariff Glen, Antrim, growing with *S. reflexum*; R. Tate.

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Sedum anglicum (Huds.) District 3. Scalp rocks between Fenagh and Bagnalstown, Carlow; R. Clayton Browne.

Cotyledon Umbilicus (Linn.) District 10. Castle Derg, Tyrone; S. A. Stewart. Near Strabane; Dr. Sigerson.

Saxifraga umbrosa (Linn.)—11. In "the Poisoned Glen," and on a mountain south of Lough Ea, Donegal; N. Moore.

S. Geum (Linn.) District 2. Rocks above Gurthaveha Lake, near Millstreet; A. G. M.

S. Hirculus (Linn.) District 3. Bogs near Mountrath, Queen's County; J. Morrison.

S. aizoides (Linn.) District 11. In a gully on the north side of Slieve League, Donegal! H. W. D. Dunlop.

S. hypnoides (Linn.) In the Journal of Botany, vol. viii., p. 280, (1870), Mr. J. G. Baker has re-arranged the forms of this variable plant under five varieties, all of which occur in Ireland.

1.? *Cæspitosa* (Linn.) An imperfect specimen gathered on Brandon Mountain by Mr. Wilson, in 1829, is the only evidence of the occurring of this form in Ireland.

2. *Sternbergii* (Willd.) Brandon Mountain, Macgillicuddy's Reeks, and Galtymore. This is the *S. hirta* of Smith.

3. *decipiens* (Ehrh.) Sleeve Neesh, near Tralee; J. G. B.

4. *quinquefida* (Haw.) Top of Brandon Mountain and Isle of Aran in Galway Bay; J. G. B. This is *S. affinis* (D. Don), and is said to be more common in Wales and Scotland.

5. *hypnoides* (Linn.) Hills in Sligo; J. G. B.; and probably frequent on the calcareous districts of the West of Ireland.

S. hypnoides (Linn.) District 11. The Little Bins, Ballyvicstocker Bay, Donegal; H. C. Hart.

S. granulata (Linn.) District 4. On the sandhills south of Mizen Head, Wicklow; D. M. Brittas, 1866; J. Morrison. District 10. On the mound at Rathtrillick, Armagh; S. A. Stewart.—12. Plentiful in Belvoir Park; Belfast. Nat. Field Club Report, 1871.

Cicuta virosa (Linn.)—9. Plentiful in Lough Bofin, Leitrim; W. T. Dyer.—10. In Cavan and Fermanagh; Annot. in Threlkeld, apud R. I. A. Sparingly at Dartry, Monaghan; M. Dowd.

Apium graveolens (Linn.) District 6. In Great Aran Island; Dr. E. P. Wright (but only seen here near cottages; H. C. Hart.) District 12. Near Belfast, etc.; Flor. Ulst. and Flor. Belfast.

‡*Ægopodium Podagraria* (Linn.)—4. Clonass and Verona, Wexford. Miss E. M. Farmer.

Carum verticillatum (Koch).—1. Plentiful a little north of Kenmare; A. G. M.

Pimpinella magna (Linn.)—2. Abundant near Buttevant, Charleville, Kilcomer, and Doneraile; Rev. T. Allin.

Sium latifolium (Linn.)—7. East side of the Shannon at Portumna Bridge; M. Dowd.

S. angustifolium (Linn.)—4. Curacloa, Wexford; Miss E. M. Farmer.

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—5. In the Canal near the North Strand, Dublin; M. Dowd. District 10. In the County Fermanagh; Mackay Rar.

Œnanthe Phellandrium (Lam.) District 7. Common about Parsonstown; also at Oldcastle, Westmeath; M. Dowd.

† *Æthusa Cynapium* (Linn.) District 7. Parsonstown; M. Dowd.

‡*Fœniculum officinale* (All.)—12. On both sides of Killough Bay, Down; S. A. Stewart.

Haloscias scoticum (Fries).—11. Plentiful on rocks in Downing's Bay, near Carrigart; also at Dunaff Head; H. C. Hart.—12. Donaghadee and Copeland Isles; Templeton.

‡*Pastinaca sativa* (Linn.)—2. Near Ardmore, Waterford; Rev. T. Allin. District (11.) Donegal Castle; H. C. Hart.

Torilis nodosa (Gaert.)—4. Valley of Diamonds, Bray; R. M. Barrington.—6. Isles of Aran; H. C. Hart.—12. Frequent on the coast of Down; S. A. Stewart. Dunseverick; R. Tate.

Scandix Pecten-Veneris (Linn.) District 7. Parsonstown; M. Dowd.

†*Anthriscus vulgaris* (Pers.)—2. Sparingly on a wall near some farm buildings at Ballyvodock; Rev. T. Allin. District 3. Roadside between Browne's Hill and Carlow; and near Ballinacarrig; R. Clayton Browne. Roadside between Mountrath and the railway station; T. Chandlee. District 6. About Kilronan, Aran; H. C. Hart.

Chærophyllum temulum (Linn.)—5. Hedge near Old Connaught; R. M. Barrington. District 7. Roadside one mile north of Oldcastle, Westmeath; M. Dowd.

Conium maculatum (Linn.) District 7. Parsonstown; M. Dowd.

Hedera Helix (Linn.) The so-called "Irish" Ivy has not yet been found growing in any place where it can be considered native. The Ivy of Kerry and Aran is only typical H. Helix.

Cornus sanguinea (Linn.)—6. On all three Isles of Aran, especially by the shore west of Killeany; H. C. Hart.—10. Banks of the Colebrooke river, Fermanagh, apart from any shrubberies; T. O. Smith.

‡*Sambucus Ebulus* (Linn.) District 7. Roadside between Parsonstown and Frankford; M. Dowd.

Galium cruciatum (Linn.) District 12. This plant was recorded in the "Antient and Present State of the County of Down," 1757, as occurring then "among the rubbish of the Cathedral of Downpatrick;" and the authority "Is. Butler" is added after these very words by the Annotator in the copy of Threlkeld belonging to the library of the Royal Irish Academy. It was rediscovered about 1842 by Professor J. E. Hodges, at the bottom of a field adjoining the marshes near the Cathedral, and on the side of the old Rath; as we learn from a letter addressed to W. Thompson in June, 1842, and for the knowledge of which we are indebted to our active correspondent Mr. S. A. Stewart. Again gathered in 1868, by the Rev. W. E. Mulgan, who has observed it for the last few years growing in a field near Downpatrick Cathedral. District 10. Plentiful in boggy ground by the side of a small lake at Colebrooke, Fermanagh, 1869 (found by Mr. T. O. Smith); H. C. Hart.

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Galium boreale (Linn.)—9. By Lough Bofin, Leitrim; W. T. Dyer. 12. By the river in Glenarm Deer park; R. Tate.

G. erectum (Huds.) District (2.) Sparingly in two lawns near Middleton and Ballinacurra, introduced; Rev. T. Allin.—5. In the demesne at Kilkea Castle! J. Douglas.

G. Mollugo (Linn.) District 4. By the avenue at Vallumbrosa, Bray; R. M. Barrington.—5. Near Kilkea Castle, Kildare; J. Douglas.

G. uliginosum (Linn.) District 7. On a bog near Multifarnham, Westmeath, sparingly, 1871 and 1872; D. M. District 12. In the County of Antrim; Rev. W. M. Hind (in Herb. Trinity College); Dr. E. P. Wright.

[*Valerianella carinata* (Lois.) District 10. Abundant on hedge-banks for a mile along a bye-road crossing Holywood Hill, near Dundonald, Co. Down; S. A. Stewart, 1871. If permanent in this locality, it will deserve to be considered a "Colonist;" for the present it ranks as a "Casual" only].

V. Auricula (D. C.)—2. Little Island, Cork, and frequent in both divisions of the County; Rev. T. Allin. Also in fields at Doughtans, Waterford; *idem.*

V. dentata (Deitr.)—3. Noreville, Queen's County; J. Morrison.—12. Carnlough; R. Tate. Island Magee and near Dundonald; S. A. Stewart.

Dipsacus sylvestris (Linn.)—2. Fields near Youghal; Rev. T. Allin. Abundant by the old road between Ross and Waterford; J. Morrison. District 4. By the road from Horetown, and Whitechurch, and Kilmokea, Wexford; Miss E. M. Farmer. Duncannon; R. M. Barrington.

Knautia arvensis (Coult.) District 11. Fields near Lough Esk, Donegal; H. C. Hart.—12. Between Randalstown and Cookstown Junction; R. Tate.

Erigeron acris (Linn.)—3. Mountmellick; J. Morrison.—5. About Mullaghcreelan Hill, Kildare; J. Douglas.

‡*Inula Helenium* (Linn.)—1. Near the ruins on Church Island in Lough Currane, Waterville; A. G. M. Frequent in Cork, and particularly in the islands of Cape Clear; Annot. in Threlkeld. District 11. The Little Bins Greenfort, Fanet; H. C. Hart.

Inula crithmoides (Linn.)—2. Rocks at Ardmore, Waterford; Rev. T. Allin.

Bidens tripartita (Linn.) District 3. Castle Blunden, Kilkenny; Rev. S. Madden.

†*Anthemis arvensis* (Linn.)—5. Plentiful in sandy cultivated ground at Portmarnock, 1869; A. G. M.

Diotis maritima (Cass.) District 4. Near Carnsore Point, Wexford; (John Waddy), Symes' Engl. Bot.

Artemisia maritima (Linn.)—5. On a low muddy point south side of the estuary of the Boyne below Drogheda, and sparingly on the adjacent shore; A. G. M.

**Tanacetum vulgare* (Linn.) District 6. Middle Island of Aran; H. C. Hart.

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Filago minima (Fr.)—4. Roadside near Drumgoff, and on the Murrough of Wicklow; A. G. M.—12. Sands east of Portrush; R. Tate.

Gnaphalium sylvaticum (Linn.) District 3. In the county of Caterlough (Carlow); Threlkeld. On high ground near Myshall, Carlow; R. Clayton Browne. District 4. In our walk towards Powerscourt; Annot. in Threlkeld. Near Shillelagh, Wicklow; H. C. Hart. District 11. Near Milford and Fanet, Donegal; Rev. T. Allin.—12. Ballintoy; R. Tate.

Antennaria dioica (Gaert.)—3. Near the Black Bog, Carlow; R. Clayton Browne. Wet pasture at Ashbrook, Queen's County; J. Morrison.

Senecio crucifolius (Linn.) District 4. Near Bray; D. M. Old Court near Bray; R. M. Barrington.—5. Castleknock, Lucan, Stillorgan and Tallaght; A. G. M.

S. Jacobœa (Linn.) Var. without rayed florets. *S. flosculosus* (Jordan). On several parts of the coast, but local. District 1. Ferriter's cave, Kerry; A. G. M. District 2. Near Tramore, Waterford; J. Woods in "Phytologist." District 4. Near Churchtown, Wexford (J. Waddy); Symes' Engl. Bot. District 5. Sandhills between Gormanstown and Maiden Tower, in many places; A. G. M. 6. In Great Aran; D. Oliver. Frequent in Aran, but the ordinary form occurred in one field only; H. C. Hart. District 8. On several islands off Connemara; A. G. M.

**S. squalidus* (Linn.) The supposed hybrid between this and *S. vulgaris* (Linn.) proves to be the rare variety of *S. vulgaris* with ligulate florets, which has also been found by Mr. N. Moore at Lough-annure, Donegal.

**Senecio saracenicus* (Linn.)—1. Roadside at Bantry; Rev. T. Allin. District 5. Near Clonskeagh, Dublin; Annot. in Threlkeld. District 6. Near Corrofin, Clare, and in Pallas, Galway; K'Eogh, p. 108.—12. By the river near C. G. Station at Cushendall; Dr. J. S. Holden.

Carlina vulgaris (Linn.)—3. Near the Black Bog, Carlow; R. Clayton Browne.—4. Near Courtown; Miss E. M. Farmer. Near Enniscorthy; J. Morrison.

Arctium majus (Schk.) Mr. Allin has not succeeded in finding this plant in the county of Cork, and we have as yet seen no Irish specimens. Professor C. C. Babington informs us that his specimen is too imperfect to be considered quite satisfactory.

A. intermedium (Lange). *A. pubens* (Bab.) District 6. In the Isles of Aran; H. C. Hart.—12. Common on the coast of Antrim, where *A minus* has not been observed; R. Tate.

Centaurea Scabiosa (Linn.) District 4. At Greystones near the church; Mrs. G. Dixon. Roadside near Greystones; Rev. J. H. Jellett. Shore at Kilkool; H. C. Hart.—6. Between Galway and Athenry; S. A. Stewart. Common in all three Isles of Aran; H. C. Hart.

[*Centaurea paniculata* (Lam.) A single plant in a cultivated field

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on the coast north of Rush; M. Dowd, 1870. No doubt accidentally introduced.]

Carduus tenuiflorus (Curt.)—3. Near Garryhundon, Carlow; R. Clayton Browne.—5. Roadside banks near the Hill of Tara; A. G. M.

Carduus arvensis (Curt.) [Var. *setosus* (M. B.)—11. In a stubble-field by the River Lennon, near Kilmacrenan, Donegal; Rev. T. Allin. The curious plant, gathered by Mr. Allin, at first sight looks like some hybrid, but it has the essential character of *C. arvensis*. The leaves are shaped somewhat like oak leaves]

**Silybum Marianum* (Gaert.) District 6. On great Aran Island; H. C. Hart.—12. Port Bradden and Toome Bridge and shores of Lough Neagh, three miles from Toome; S. A. Stewart.

‡*Cichorium Intybus* (Linn.)—2. Field by the Blackwater, in Waterford; Rev. T. Allin. District 3. Near Ballyonskill, Kilkenny; Rev. S. Madden.—4. Occasionally at Fassaroe, near Bray; R. M. Barrington.—12. On the mountains of Mourne; Harris' Hist. of Down.

Thrincia hirta (D. C.) District 3. Common about Carlow; R. Clayton Browne. District 7. Frequent about Parsonstown; M. Dowd. District 12. Near Newtown-Breda and banks of Laggan, above Ward's Cottage! D. Orr. The last is the station given for *Apargia hispida*, in "Flora Belfastiensis."

Var. arenaria (D. C.) Seaside sandhills at Courtown, Portraine and Gormanstown; A. G. M.

Apargia hispida (Willd.)—4. Roundwood, and—5. Lucan; A. G. M. Never seen in the north of Ireland by Mr. D. Orr, who believes that *T. hirta* has often been mistaken for it.

Tragopogon pratensis (Linn.) District 3. Woodstock, Kilkenny; Miss E. M. Farmer.—4. Near Rathnew, Wicklow (*T. majus*); A. G. M. Fassaroe; R. M. Barrington.—5. Common at Straffan and Kilkea; J. Douglas.

Helminthia echioides (Gaert.)—2. Near Youghal; Rev. T. Allin. District 12. Shore at north end of Island Magee, opposite Larne, Antrim; S. A. Stewart and R. Tate. Shore of Belfast Bay, half a mile above Blackhead; S. A. Stewart.

Leontodon Taraxacum (Linn.) *Var. palustre* (Sm.) District 10. Occasionally in Tyrone; Dr. Sigerson.—12. Shores of Lough Beg (*T. udum!* Jordan); S. A. Stewart.

Sonchus asper (Hoffm.) District 11. Fanet, Donegal; H. C. Hart.

†*Crepis* (*Barkhausia*) *taraxacifolia* (Thuil.) *C. biennis* (Flor. Hib.

—5. This plant is still spreading, with every appearance of an introduced species, in the neighbourhood of Dublin. Raheny; H. C. Hart. At Portmarnock and Malahide; Hedgebanks, near Lucan, Quarry near Finglas-wood; and on the south side of Killiney Hill; A. G. M. Vallumbrosa, near Bray; R. M. Barrington.

[*C. setosa* (Hall). Field between Browne's Hill and Carlow! 1867; R. Clayton Browne].

C. paludosa (Moench.)—2. By the River Lickey, in Waterford,

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and by the river near Middleton, Cork; Rev. T. Allin. District 7. Plentiful in wet pastures north of Oldcastle, Westmeath; M. Dowd.

Hieracium anglicum (Fries). District 2. Rocks above Gurthaveha Lake near Millstreet; A. G. M. District 6. On a granite boulder, in Great Aran Island; H. C. Hart.

H. boreale (Fries). District 11. Near the mill at Ardara; H. C. Hart.

[*Campanula rapunculoides* (Linn.) Sandhills at Newcastle, Down, about 50 plants in 1871, and, no doubt, introduced; S. A. Stewart. A few plants at the foot of a wall near the harbour of Bray, 1872; A. G. M.]

Obs. *Campanula latifolia* (Linn.) Has not yet been rediscovered on the banks of the Barrow above New Ross, and it is much feared that a mistake was made in the name, especially as Mackay records only *C. latifolia* from the same district where other botanists have found *C. Trachelium* only.

C. Trachelium (Linn.)—(4.) In a field near Roundwood, towards the Reservoir; Hon. Mrs. Barton.

Wahlenbergia hederacea (Reich.)—1. Banks of a stream west of Macroom (found by Miss J. Harvey); Isaac Carroll. District 5. In Glen-cullen, near the bridge; Greenwood Pim.

Andromeda polifolia (Linn.)—3. Common on bogs in Queen's County. Mackay Rar.—7. On Annahinch Bog, near Parsonstown; G. H. Kinahan. Add Districts 6, 7, 9, 10, 12, which were accidentally omitted in the line of figures.

Erica cinerea (Linn.) Ascends to 2200 feet on Sawel, Derry; D. M. To 2300 feet on Mangerton, and to 2500 feet on Carn Tual, Kerry; A. G. M.

Calluna vulgaris (Salisb.) Ascends to 3300 feet on Carn Tual; A. G. M.

Erica ciliaris (Linn.) This must be very rare in the locality near Craigga-more, and neither D. M. nor A. G. M. have been able to find it, but Professor Balfour has kindly sent us a specimen gathered in 1852.

Obs. *Erica vagans* (Linn.) Mr. R. M. Barrington, having been directed by Doctor Burkitt to the exact spot where it was supposed to have been gathered, has made a careful search without finding a trace of this plant: see "Trimen's Journal of Botany," p. 108 (1872.)

Pyrola rotundifolia (Linn.) District 7. Sparingly on a large bog near Multyfarnham, Westmeath, 1870; D. M. How's locality, "In a bog by Roscree," may belong to this species.

P. minor (Linn.)—7. In a glen near Tyrrell's-pass; D. M. District 10. Hill of Scraba, near Newtown; Harris's "Down."

Monotropa Hypopitys (Linn.) District 9. Hazlewood, Sligo; (found by Miss Wynne) Lord Clermont.

Ilex Aquifolium (Linn.) District 10. Near Strabane; Dr. Sigerson.

Ligustrum vulgare (Linn.) District (10.) Banks of the Glenmornan river, Tyrone, introduced; Dr. Sigerson.

Erythræa pulchella (Fries). District 4. Curacloa, Wexford! J.

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Morrison. District 5. On the North Bull! Dublin Bay, in tolerable plenty, October 1867; D. Orr.

E. Centaurium (Pers.) District 10. Cloghcor, Tyrone; Dr. Sigerson. The *Var. latifolia* is *E. capitata* (R. et S.)

Convolvulus arvensis (Linn.)—6. Plentiful near Limerick; D. M. In the great Island of Aran; H. C. Hart. District 9. In County Sligo; I. Carroll.—10. Fermanagh; Rev. S. A. Brenan. District 11. Fanet, Donegal; H. C. Hart.—12. Glenarm; Dr. J. S. Holden. Between Rathmullan and Tyrella, Down; S. A. Stewart.

C. sepium (Linn.) District 10. Enniskillen, Fermanagh; S. A. Stewart. By the Foyle and near Strabane; Dr. Sigerson.

**Cuscuta Trifolii* (Bab.) District 4. Quite established in clover fields at Fassaroe, near Bray; R. M. Barrington. District 5. Found in 1868, by Dr. W. G. Smith, in a field near the sea-shore at Ballybrack, occupying a space of a few square yards only, and here parasitical upon *Lotus, Daucus, Linum catharticum*, etc. ("Dub. Nat. Hist. Soc., Proc., vol. v., p. 198.) Once found near Kilkea, Kildare; J. Douglas.

‡*Cynoglossum montanum* (Lam.) Probably not native, in the single locality near Balbriggan.

**Anchusa sempervirens* (Linn.)—11. At Clondevaddock Church, Rossnakill, Fanet; H. C. Hart.

Lycopsis arvensis (Linn.)—5. Shore north of Gormanstown, and at mouth of Boyne; A. G. M. District 11. By Lough Swilly, and near the light-house, Fanet; H. C. Hart.

Echium vulgare (Linn.)—4. Near Ballycarney and Bloomfield, Wexford; Miss E. M. Farmer. At Fassaroe, near Bray, occasionally; R. M. Barrington.—5. On the warren south of Rush, plentifully; shore at Gormanstown and at Laytown; A. G. M.—12. Curran of Larne; R. Tate. Cushendun, but very rare; Rev. S. A. Brenan.

Mertensia maritima (Don).—4. Not now plentiful on the Murrough of Wicklow, but occurs near Newcastle Station, and between Kilcool and the "Breaches;" A. G. M. District 6? Sands at mouth of Creegh river, near Mount Rivers, Clare; "Dublin Penny Journal," iii., 278.

Lithospermum officinale (Linn.) District 4. Between Ballymoney and Kiltennel sandbanks; Miss E. M. Farmer. Among bushes on the shore north of Courtown; A. G. M. Fassaroe, Bray; R. M. Barrington.—6. Great Aran Island; H. C. Hart. District 11. Rathmullan and Downing's Bay, Donegal; H. C. Hart, Ballyhooriskey; Rev. T. Allin.

Myosotis repens (Don). District 10. Castle Derg, Tyrone; S. A. Stewart.

Solanum nigrum (Linn.) District 4. Shore near Churchtown, Wexford, first observed in 1834, and still growing there in 1869; also on sands at Rostonstown; John Waddy.—5. Once seen in the churchyard at Kilkea, Kildare; John Douglas.—12. Sandy ground near Cushendun, from 1867 to 1871; Rev. S. A. Brenan.

S. Dulcamara (Linn.)—3 and 4. Occasionally in the counties of Carlow and Wexford; J. Morrison.—4. St. John's, near Enniscorthy;

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Miss E. M. Farmer.—11. At Leck, on the farmyard wall, and in a hedge a mile towards Stranorlar; N. Moore.

Hyoscyamus niger (Linn.)—3. Browne's Hill, Carlow; R. Clayton Browne. Maryborough, Queen's County; J. Morrison. 4. Bannow, Wexford; Miss Nunn. On the Murrough, a little north of Wicklow; A. G. M.

Orobanche rapum (Thiel.)—5. On a hill south of Rathfarnham; Annot in Threlkeld.

O. rubra (Sm.)—12. On white limestone at Ballyvoy and White Park, Ballintoy; R. Tate.

O Hederæ (Duby).—9. Hazlewood, Sligo; D. M.

[*O. minor* (Linn.) District 4. On clover in two fields at Springhill, Enniscorthy, 1868; J. Morrison. A single plant next a Sweet Pea in the garden at Bloomfield, and another single plant on clover by the avenue at Bloomfield, 1867; Miss E. M. Farmer. Scarcely yet established as a naturalized plant].

Lathræa Squamaria (Linn.)—2. Plentiful for a long distance along the banks of the Blackwater, below Mallow, parasitical on *Ulmus montana* only, avoiding Beech, Horse Chestnut, Alder, and Sycamore; A. G. M. District 7. In woods at Parsonstown, but rather scarce; M. Dowd. District 9. In County Roscommon! Miss Acton.—10. Whitepark, Fermanagh; T. O. Smith.

Verbascum Thapsus (Linn.) District 11. Between Ballyshannon and Donegal; H. C. Hart.

**V. Blattaria* (Linn.)—4. On rough stony ground a little north of Wicklow; A. G. M.

Antirrhinum Orontium (Linn.)—2. Fields near Tower Village, Blarney (found by Mr. R. Mills); Rev. T. Allin.

Linaria Elatine (Mill.) District 4. Between Bannow and Ballymadder, Wexford; R. M. Barrington.—6. Roadside near Ballyvaughan, Clare; Rev. T. Allin.

L. minor (Desf.)—3. Browne's Hill, Carlow; R. Clayton Browne. Railway embankments near Carlow, not Enniscorthy; J. Morrison. —5. Near Sydney Parade Station, 1867; V. A. Smith. Straffan, Kildare; J. Douglas.

L. repens (Ait.)—5. Perhaps introduced at Bushy Park; D. M.; and the locality near Carlow requires confirmation.

L. vulgaris (Mill.)—3. Garryhill, Carlow; R. Clayton Browne. 4. Frequent near Enniscorthy; Miss E. M. Farmer.

Scrophularia aquatica (Linn.) District 3. Kilmacow, Kilkenny; T. Chandlee. District 11. Drimnacraig and in Fanet; H. C. Hart.

Melampyrum pratense (Linn.) District 3. Banks of the Slaney; R. Clayton Browne.

M. sylvaticum (Linn.)—12. Crow Glen, Belfast; S. A. Stewart.

[*Mimulus luteus.* (Willd.)—4. In the Dargle River, near Enniskerry; A. G. M.—10. On waste ground near the Glenmornan River, Tyrone, two or three plants only; Dr. Sigerson.—12. Banks of the Bann, between the Cuts and Coleraine; S. A. Stewart].

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Pedicularis sylvatica (Linn.) District 11. Common about Horn Head; N. Moore, and in Fanet; H. C. Hart.

Rhinanthus Crista-galli (Linn.) District 10. Enniskillen, Fermanagh; S. A. Stewart.

Veronica officinalis (Linn.) District 10. Sperrin Mountains, Tyrone; S. A. Stewart.

**Veronica peregrina* (Linn.) District 9. Demesne at Rockingham, Roscommon, and in the garden and demesne at Hazlewood, Sligo; D. M. District 11. Salthill Garden, Mount Charles, and Kilderry, Muff, 1870; H. C. Hart. Gweedore; Rev. W. M. Hind. Not found in District 6.

**V. Buxbaumii* (Ten.) District 11. Rathmullan; H. C. Hart.

V. hederifolia (Linn.) District 7. Parsonstown; M. Dowd.

‡*Mentha sylvestris* (Linn.) District 2. Roadside near Timoleague, 1871; Rev. T. Allin.

†*M. rotundifolia* (Linn.)—2. Fields near the Blackwater, Waterford; Rev. T. Allin. District 6. Roadside banks between Galway and Oranmore; S. A. Stewart. Cultivated in the garden of the Atlantic Hotel, at Kilronan, Aran; A. G. M.—8. Plentiful near a cottage at Ballinaderg Bridge, at foot of Nephin; H. C. Hart.

**M. piperita* (Sm.)—2. Near the river at Middleton, plentifully; Rev. T. Allin.

M. sativa (Linn.) District 11. Near Croagross, Fanet; H. C. Hart. Ditto *var. rubra* (Smith).—4. Clohass Bog and Bloomfield; Miss E. M. Farmer.

M. arvensis (Linn.) District 3. Mountrath, Queen's County; J. Morrison. District 10. Near Liscurry, Tyrone; Dr. Sigerson. District 11. Near Cloghanealy; N. Moore. Fanet; H. C. Hart.

M. Pulegium (Linn.)—2. Abundant near Kilcoleman; Rev. T. Allin.

[*M. Requienii* (Benth.) The Corsican Mint has been observed by the Rev. T. Allin, growing abundantly in the street of Castle Townsend, evidently an escape from cultivation].

Salvia Verbenaca (Linn.)—2. Near Red Strand, Clonakilty; Rev. T. Allin.

Calamintha officinalis (Moench.)—2. Near Blackwater, Waterford, and abundant on limestone in North Cork; Rev. T. Allin.

Obs. *Calamintha Nepeta* (Clairv.) Must be struck off the Irish list, as Professor Babington informs us that his specimen belongs to *C. officinalis.*

C. Acinos (Clairv.)—5. Once found sparingly near Mullaghchreelan Hill, Kildare; J. Douglas. Portraine, 1869; H. C. Hart.

C. *Clinopodium* (Benth.) District 9. On the shore of the lake at Rockingham, Roscommon, 1871; D. M. It is to be feared that many of the localities given for this plant, especially those near Dublin, belong to *C. officinalis.*

Scutellaria galericulata (Linn.) District 11. Mulroy and Carrowkeel, Fanet; H. C. Hart.

†*Nepeta Cataria* (Linn.)—5. Ditch near the Curragh of Kildare,

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1732; Annotator in Thelkeld, R. I. A. District 7. Roadside near Ballylucnane, Parsonstown; M. Dowd. District 10. Banks of the Colebrooke River, Fermanagh; T. O. Smith. District 11. In a lane from Rowross Ferry to Carrigart, and one plant between Donegal and Ballyshannon; H. C. Hart.—12. Waste ground near Ardglass, Down, perhaps an escape; S. A. Stewart.

Lamium amplexicaule (Linn.)—5. Kilkea Castle, Mageney; J. Douglas. District 11. Fanet and Rossnakill; H. C. Hart.

L. intermedium (Fries).—12. Along the coast from Magilligan to Belfast, in various places, extending as far south as Newtownards; R. Tate.

†*L. album* (Linn.)—4. Near the bridge at Bray; R. M. Barrington.—5. Common about Kilkea, Kildare; J. Douglas. South shore of the Boyne below Drogheda, and near the Hill of Tara, Meath; A. G. M.

L. Galeobdolon (Crantz).—5. Kelly's Glen, on the upper Dodder; W. Archer.

Galeopsis Ladanum (Linn.)—4. Every year in wheat crops at Fassaroe, near Bray; R. M. Barrington.

Stachys Betonica (Benth.) District 7. Woods near Tullagh, barony of Onagh, Tipperary; K'Eogh Bot. Hib.

S. arvensis (Linn.) District 4. Shillelagh, Wicklow; H. C. Hart. Between Ballymadder and Bannow, Wexford; R. M. Barrington. District 6. In Great and Middle Aran; H. C. Hart. District 11. Frequent in Fanet; H. C. Hart.

Ballota nigra (Linn.)—4. Plentiful a few years ago near Enniscorthy; J. Morrison. District 11. Between Salthill and Ardnamona, Donegal; H. C. Hart.—12. Shores of county Down, in several places; S. A. Stewart.

Teucrium Scordium (Linn.) District 9. Banks of the Shannon near Lanesborough, fide I. B. (Isaac Butler), Annot. in Threlkeld.

Pinguicula grandiflora (Linn.)—2. At Gurthaveha Lake, near Millstreet, sparingly. Ascends to 1800 feet on Carn Tual; A. G. M.

P. vulgaris (Linn.)—1. In the Horse's Glen, Mangerton, with *P. grandiflora*, at about 1800 feet; A. G. M.

Utricularia intermedia (Hayne).—1. Bog holes near Lough Carragh; Dr. Battersby. Bog near Knockskeagh, Leap; Rev. T. Allin.—11. Near Kindrum Lakes, Fanet; H. C. Hart.

U. minor (Linn.) District 2. Dunsfort Bog, near Middleton, Buttevant, and other places in East Cork, frequent; Rev. T. Allin. District 3. Bog of Allen; *Wade, Rar.*

Hottonia palustris (Linn.)—12. Plentiful in the drains on the bog meadows, Belfast, where it was planted a few years ago; S. A. Stewart. Dr. P. Browne notes it as found in a watery ditch west of Lough Mask, on the road from Ballinrobe to Westport, but this latter locality requires to be verified before the plant can be admitted as a native of the west of Ireland.

‡*Lysimachia Nummularia* (Linn.)—4. Under a bank outside a boggy plantation between Monart-house and Mill-house, Wexford; Miss E.

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M. Farmer. 10. River bank, near Ardunshin, Fermanagh; Rev. S. A. Brenan. Banks of the river three miles above Colebrooke; T. O. Smith. 12. Dunminning, near Ballymena; apparently an escape from cultivation; N. Moore. *L. nemorum* has often been mistaken for this species.

Anagallis arvensis (Linn.) *Var. cœrulea.* District. 5. Sparingly near Kilkea Castle, Kildare; J. Douglas. District 8. Near Belmont, Galway; Dr. W. King.

Centunculus minimus (Linn).—1. Shores of Berehaven; A. G. M. 2. Ballintowtas, near Middleton, Cork; Rev. T. Allin.

Samolus Valerandi (Linn). District 3. Browne's Hill, and on the Black Bog, near Carlow; R. Clayton Browne.

Statice occidentalis (Lloyd). District 4. Rocks about two miles north of Arklow, and near the old castle at Wicklow; A. G. M.—5. On the North Bull, Dublin, sparingly, and on the muddy shore of the creek north of Malahide: on the flat shore at the north end of Portraine, and on the drier part of a mud flat at Laytown, in several of these localities accompanied by *S. Bahusiensis;* A. G. M.

Armeria maritima (Willd.)—1. On the shores of Ross Island, Killarney, growing with *Silene maritima.* Ascends to 3400 feet on Carn Tual; A. G. M.

Plantago maritima (Linn.) District 8. Frequent on the coast of Connemara, etc.; A. G. M.

[*Plantago media* (Linn.) Reported by Mr. J. Douglas as found by him abundantly in a field and on a furzy bank about one and a-half miles north of Straffan, Kildare; but not having seen any specimens, and not knowing the circumstances under which it occurred, we still hesitate to admit it as a native plant. A variety of *P. lanceolata,* with very broad leaves, occurs about Feltrim Hill, and was, probably, mistaken by Mr. White for *P. media.* This variety has also been sent to us from the north of Ireland, under the name of *P. media.*]

Littorella lacustris (Linn.) District 2. Shore of Ballybutler Lake, near Middleton, and at Kilcoleman, Castlemartyr, etc.; Rev. T. Allin.

Suæda maritima (Dum.) District 6. Great Aran Island; Dr. E. P. Wright.

Salsola Kali (Linn.) District 6. Great Aran Island; *idem.*

Chenopodium album (Linn.) District 7. Parsonstown; M. Dowd.

C. rubrum (Linn.) District 2. Edge of a bog at Kilcoleman, with *Rumex maritimus;* Rev. T. Allin.

Obs. *C. urbicum* (Linn.) Has not been rediscovered, and we fear that *C. murale* was the plant gathered in Upper Dominick-street.

Atriplex littoralis (Linn.) District 6. Great Aran Island; H. C. Hart. District 11. Lighthouse at Fanet; *idem.*

A. angustifolia (Sm.) District 6. Aran; H. C. Hart. District 7. Parsonstown; M. Dowd. District 11. Fanet; H. C. Hart.

A. hastata (Linn.) District 7. Parsonstown; M. Dowd.

A. arenaria (Woods.)—5. Sandy shore at Portraine, and Gormans-

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town, and south bank of the estuary below Drogheda, but quite rare; A. G. M. Not seen on the coast of Antrim by Mr. R. Tate.

Obione portulacoides (Moq.)—5. Rocks at south side of, and on the flat shore at north end of Portraine opposite Rush; also on the south side of the estuary below Drogheda; A. G. M. Salt marsh on south side of Dundalk Bay; Templeton.

Rumex maritimus (Linn.) District 2. Sparingly on the edge of a bog at Kilcoleman! Rev. T. Allin.

‡*R. pulcher* (Linn.) District 4. On the shore by the harbour at Bray, 1867–72; D. M.—5. Shore near the Race-stand at Baldoyle, 1868, very sparingly; A. G. M.

R. Hydrolapathum (Huds.)—2. Abundant near Buttevant, Cork, and Cappoquin, Waterford; Rev. T. Allin.

†*Polygonum Bistorta* (Linn.)—3. In Captain Mitchel's ground by the brook near Stradbally, 1732; Annot. in Threlkeld. This is, probably, the very same locality where it was observed by Mr. Chandlee 130 years later.

P. Raii (Bab.)—1. Sandy point at entrance to the harbour of Ardgroom, Cork; A. G. M.—5. Shore north of Gormanstown; A. G. M.

**Hippophae rhamnoides* (Linn.) District 4. Thoroughly established on the sandhills at Kiltennel, north of Courtown, Wexford, where Miss Farmer has ascertained that it was planted about thirty years ago. Mr. J. Morrison informs us that this shrub grows also on the sandy shores at Raven Point, near Wexford Harbour. (5). Planted at Rush.

Empetrum nigrum (Linn.) District 3. Plentiful on Mount Leinster, on the borders of Carlow and Wexford; R. Clayton Browne. District 7. Tops of mountains four miles from Parsonstown; M. Dowd. District 10. Sperrin mountains, Tyrone; S. A. Stewart. Occurs on many of the mountains near Killarney and on Connor Hill; A. G. M.

Euphorbia hyberna (Linn.) District 11. Among large rocks and bushes on the south side of the Poisoned Glen, Dunlewy, Donegal, in no great quantity; N. Moore, 1867—thus confirming the accuracy of Robert Brown's observation. This spurge flowers in the early Spring, commencing often in the middle of April. It frequently grows on open rocky banks, and among heath on the mountains, ascending to 1500 feet or more in the Horse's Glen, Mangerton; A. G. M.

E. amygdaloides (Linn.) District 4? A single plant has been observed for several years past growing in ground now cultivated on the site of a former wood near Springhill, Enniscorthy; J. Morrison. Whether a recent introduction, or a relic of a former wild station, cannot be determined, but this, at least, indicates that the plant should be sought in the neighbourhood of Enniscorthy.

E. portlandica (Linn.)—1. Derrynane, Kerry, sparingly; A. G. M. Rosscarbery, Clonakilty, and Castlefreke, Cork; Rev. T. Allin.—4. Sandhills at Courtown and Arklow; A. G. M. District 6. Great and Middle Aran; H. C. Hart.—11. Kindrum, Donegal; *idem.*

Mercurialis perennis (Linn.)—10. In the lower demesne at Tandragee, plentiful in one spot; R. M. Barrington.

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Ceratophyllum demersum (Linn.)—2. Blarney Lake (found by R. Mills); Rev. T. Allin.—12. In the Quoile river, Downpatrick; S. A. Stewart. Not found in Lough Neagh, which was given in mistake for Lough Leagh, near Killaleagh, Down, where the plant was found by Templeton in 1804.

Callitriche autumnalis (Linn.) District 1. By the shore of Ross Island, Lower Lake of Killarney, 1866; A. G. M. This will alter the latitude from 53° to 52°, and is the most southern locality in the British Islands.—12. Carrickmannan Lake, near Saintfield, Down; S. A. Stewart.

Salix pentandra (Linn.) District 3. Many scattered trees in the uncultivated country between Mountmellick and Tullamore; J. Morrison.—9. In hedges and by ditches in Glen Iff, Ben Bulben; W. T. Dyer.—12. Common in the Tickmacrevan district, Glenarm; R. Tate.

**S. purpurea* (Linn.) *Var. Helix* (Linn.) District 9. Glen Iff, Ben Bulben, and near Drumod, but planted; W. T. Dyer.

S. phylicifolia (Linn.) District 9. North side of Ben Bulben; D. M. This is the willow given in our "Contributions," under the name of *S. procumbens*, which must now be expunged.

S. ambigua (Ehrh.) District 8. Tully, Connemara; Professor C. C. Babington.

S. Grahami (Borr.) District 11. Among moss on the top of Muckish Mountain, Donegal, 1868; D. M. Mr. Leefe considers this little willow very closely allied to the continental *S. retusa* (Linn.)

S. herbacea (Linn.)—1. On Carn Tual at 2650 feet; A. G. M.—8. On Lettery Mountain, etc., in Connemara; Mackay, Rar. The height of 1000 feet, at which this plant grows, on the top of Clontygearagh Mountain, Derry, is lower than any elevation at which it has been observed anywhere else in Great Britain.

Quercus Robur (Linn.) *Var. sessiliflora* (Sm.) District 1. Killarney; A. G. M. District 10. Banks of the Glenmornan river, Tyrone; Dr. Sigerson.

‡*Tamus communis* (Linn.) District 9. On a bushy hill rising from Lough Gill, looking eastwards, and within the demesne of Hazlewood; Dr. T. E. Little, 1866. Abundantly in a wood on the shore of Lough Gill, far from any house or garden; W. Heron, 1868. Seen in this locality by D. M., in 1871, but was very probably planted there by the late owner of Hazlewood, who was very fond of introducing new plants in his demesne. *Tamus* is not mentioned in the late Mr. Wynne's own list of the plants seen by him in Sligo, and yet it could hardly have escaped his observation at Lough Gill.

**Anacharis Alsinastrum* (Bab.) *A. canadensis* (Planch.) District 4. Ponds at Hollybrook, Bray; R. M. Barrington. Is rapidly extending along the canals and rivers throughout nearly all Ireland.

Orchis Morio (Linn.)—8. Foot of Urrisbeg mountain near Roundstone; W. T. Dyer.

O. pyramidalis (Linn.) District 1. Meadow near Passage, and on sandhills near Castlefreke; Rev. T. Allin.—3. Common about Carlow;

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R. Clayton Browne.—4. Sandhills north of Arklow; A. G. M. District 11. Near Kindrum Lake, Fanet, Donegal; H. C. Hart.

Gymnadenia albida (Rich.)—6. Two miles north-west of Woodford, Galway; M. Dowd.—9. Bruse Hill, near Mohill, Leitrim; the late F. J. Foot.

Neotinea intacta (Reich.)—6. Has been gathered every year since 1864 in the original locality, but has not yet been found anywhere else near Castle Taylor, except in the one large pasture field in which it was first discovered. District 9. On the north-east shore of Lough Corrib, not far from Cong, April, 1872; D. M. Flowers early, commencing at the end of April.

Habenaria bifolia (R. Br.)—4. Marshes near Newcastle, Wicklow; A. G. M.—7. Near Parsonstown; M. Dowd. This appears to be a scarce plant, while *H. chlorantha* is very frequent, especially in heathy districts, ascending to 700 or 800 feet.

Ophrys apifera (Huds.)—4. Sandbanks at Kiltennel and Courtown, Wexford; Miss E. M. Farmer.

Spiranthes autumnalis (Rich.)—1. Three Castle Head, Cork; T. Chandlee.—2. Near Lecky, and by the Blackwater, Waterford; Rev. T. Allin.

Spiranthes Romanzoviana (Cham.) This is the name now adopted by Prof. Asa Gray, and Dr. Hooker, in preference to *S. gemmipara*. The plant still grows in many of the meadows and pastures near Castletown, commencing to flower from the middle of July.

Listera cordata (R. Br.)—4. On the mountain side south of Lough Nahanagan, Wicklow; A. G. M.—5. Kelly's Glen; C. Ball.—11. Hills near Rathmullan, Donegal; H. C. Hart.

Neottia Nidus-avis (Rich.) District 7. Woods at Rockingham, Roscommon; D. M. District 9. Hazlewood, Sligo; D. M. District 11. Ards woods, Donegal! M. Murphy.

Epipactis latifolia (All.) District 11. Mount Charles, Donegal; H. C. Hart.

Cephalanthera ensifolia (Rich.)—1. Wood near Lickeen House, at head of Lough Carragh; Dr. Battersby. Wood by the Kenmare road from Killarney; A. Balfe. Near Derrycunihy cascade; A. G. M.

Malaxis paludosa (Sw.)—5. Marshy places about Kelly's Glen, along the River Dodder; Templeton.—12. Bog on Fair Head, Antrim; S. A. Stewart.

†*Sisyrhynchiun anceps* (Lam.) *S. Bermudiana* (Linn.)—6. Abundant in marshy meadows and pastures along the river on both sides, for four miles, from Woodford to Rossmore, forming conspicuous blue patches among the grass, and with every appearance of a native. Also in fields by the road from Woodford to Portumna, and on a hill half a mile N. E. from Woodford; M. Dowd, and Prof. E. P. Wright, 1870. The plant grows here in such profuse abundance that it seems hypercritical to challenge its indigenous origin; still, when we see how inexplicably it has originated, how abundant it has become within a few years, and what a strong hold it has taken of the ground at Brisbane,

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Queensland, as recorded by Mr. C. Prentice, in Trimen's Journal of Botany, Series 2, vol. i., p. 22 (1872); and considering that in England also it has lately become well established in Hampshire, we may well hesitate to accept the "Blue-eyed grass" of Canada as an indubitable native of Ireland. If the locality in which it occurs is nearly as restricted as that of the *S. piranthes* at Berehaven, at least the Orchid lies, like all the other American and Iberian plants, quite close to the shore, and is a species of whose introduction or rapid extension we have not any experience.

‡*Iris fœtidissima* (Linn.) A very doubtful native of Ireland, where it seems to have been formerly much cultivated, nor are we acquainted with any locality where it grows in a really natural manner.

Asparagus officinalis (Linn.)—4. Sandhills in Ballyteigue Bay, Wexford; Mr. Lewis.

‡*Allium Babingtonii* (Borr.)—6. In all three of the Islands of Aran; H. C. Hart.

A. vineale (Linn.)—3. Banks of the Nore, near Inistioge, Kilkenny; Tighe.

Simethis bicolor (Kunth).—1. Certainly indigenous at Derrynane, where it grows on boggy, heathy, and turfy slopes, far away from the Abbey ruins, amidst heather and *carices*, etc.

Eriocaulon septangulare (With.)—1. Bog-holes at north end of Lough Carragh, Kerry; Dr. Battersby. First found by Dr. Wade in 1801, as shown by a letter from him to Smith, in the Library of the Linnæan Society. In the Cloonee, not Cromeen, Lakes, Kerry.

Juncus acutus (Linn.)—1. Plentiful in the warren at Rosscarbery, and a few plants on Castlefreke sands; Rev. T. Allin.—4. At the mouth of the Kilgorman river, north of Courtown, Wexford, and on sandhills thence to Arklow; also north of Arklow in Brittas Bay, and near Mizen Head, etc., as far as Seapark House, where both it and *Equisetum Moorei* appear to cease. Flowers early in June, several weeks before *J. maritimus*.

J. obtusiflorus (Ehrh.)—1. Near Dingle, Kerry; D. M. District 8. Boggy slopes at foot of Urrisbeg Mountain, Connemara; A. G. M.

J. squarrosus (Linn.) District 10. Sperrin Mountain, Tyrone; S. A. Stewart. Ascends to 2700 feet on Mangerton, and to 3300 on Carn Tual; A. G. M.

Luzula sylvatica (Bich.) Reaches 3400 feet on Carn Tual; A. G. M.

Butomus umbellatus (Linn.)—2. Ballycotton Bog, and abundant near Buttevant; Rev. T. Allin.—7. In the Brosna at Parsonstown; M. Dowd.

Sparganium natans (Linn. et Fries).—11. Lakes near Keel, Donegal; H. C. Hart.

S. minimum (Fries). District 7. Near Parsonstown; M. Dowd. District 10. In a lake near Drum, Clones; J. Bain.

**Acorus Calamus* (Linn.) District 12. Lakes at Hillsborough and Ballinahinch, Down, but most probably planted there; Templeton. Profusely on both sides of the Lagan, for six or seven miles between

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Lisburn and Moira, Down; S. A. Stewart, 1866. This is an artificial cut, and the plant does not grow in Lough Neagh, nor in the river whence the Lagan Canal is drawn. Dr. Patrick Browne, in 1788, was aware of its occurrence in the county of Down, but does not give any special locality. According to the best authorities, *Acorus Calamus* is nowhere native in the west of Europe.

Potamogeton rufescens (Schrad.)—2. Plentiful in the Blackwater at Buttevant; Rev. T. Allin. District 3. Ditch near Mountrath, Queen's County; J. Morrison.

P. polygonifolius (Pourr.) *Var.* with long, thin, narrowly-lanceolate submerged leaves; *var. pseudo-fluitans* (Syme.)—8. Plentiful in lakes and streams at Ballinahinch, Connemara; A. G. M. This is the plant doubtfully given in our book as *P. lanceolatus*, and is very characteristic of streams connected with lakes in mountainous districts. The long submerged leaves are very like those of *P. sparganiifolius.*

P. Lonchites, "Tuck" (Syme), in "English Botany." District 5. In the Boyne below Navan. By this name Doctor Syme designates the *Potamogeton* from the Boyne, which we have doubtfully referred to *P. heterophyllus.*

P. lucens (Wulf). District 7. In the Brosna, near Parsonstown; M. Dowd. *Var. decipiens* (Nolte.) District 5. In the Canal at Navan; Charles Bailey, 1868.

P. crispus (Linn.) District 11. Kindrum Lakes, Fanet; H. C. Hart.

P. gramineus (Linn.) *P. obtusifolius* (M. et K.)—2. Bogs near Youghal and Charleville, and in Ballybutler Lake, Cork; Rev. T. Allin.—10. Near Drum, Clones; J. Bain.

P. pusillus (Linn.) District 7. Common near Parsonstown; M. Dowd. District 10. Strabane Canal and Ballymagorry, Tyrone; Dr. Sigerson. District 11. Kinlough, Fanet; H. C. Hart.

P. pectinatus (Linn.) District 6. Aran Island; H. C. Hart.

Zannichellia palustris (Linn.) District 11. Glen Head, Donegal; H. C. Hart.

Naias flexilis (Rostk.)—8. In 1869, I found it only in Lough Cregduff, three-quarters of a mile west of Roundstone, and it is probable that this is the same lake in which Prof. Oliver discovered it, and the only locality yet found in Ireland; A. G. M.

Schœnus nigricans (Linn.) District 3. Black Bog and Sandbrook near Ballon, Carlow; R. Clayton Browne.

Cladium Mariscus (R. Br.) District 3. Black Bog near Carlow, and Ardristan Bog near Tallow; R. Clayton Browne.

Eleocharis uniglumis (Link.)—4. On the sandhills near Arklow; A. G. M. District 5. On the shore east of Dollymount, opposite the North Bull, Dublin; M. Dowd. District 12. Shore half a mile below Bangor, Down; S. A. Stewart.

E. multicaulis (Sm.) District 10. Near Drum, Clones; T. Bain.

Scirpus sylvaticus (Linn.)—2. Banks of the Owley River near Kilcomer; Rev. T. Allin.—12. Deer Park, Glenarm; R. Tate.

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S. lacustris (Linn.) District 3. Plentiful in the Barrow; R. Clayton Browne. District 7. Plentiful in the Brosna; M. Dowd.

S. pauciflorus (Lightf.)—5. Marshes on Howth, 1870; M. Dowd, thus confirming Mackay in Cat. Ir. Plentiful, with *Blysmus rufus*, on the North Bull, Dublin. Also on the shore east of Dollymount, and between Baldoyle and Portmarnock. Shore south of Balbriggan, with *Schænus nigricans;* A. G. M.—9. About Ben Bulben; D. M.

Scirpus parvulus (R. et S.) District 4. Abundant at Arklow, on soft mud, overflowed at high tide on the north side of the River Ovoca; A. G. M., July, 1868 (Journal of Botany, vol. vi., 1868).

S. setaceus (Linn.) District 3. Eastern slopes of Slieve Margy, Queen's Co.; R. Clayton Browne. District 6. Aran Isles; H. C. Hart.

S. Savii (S. et M.) District 2. Plentiful near Middleton, Cork; Rev. T. Allin. District 6. Aran Isles; H. C. Hart.

Blysmus rufus (Pang.)—5. Abundant on the North Bull, opposite Dollymount; A. G. M. Flowers early in June.—12. North side of Ardglass Bay, Down; S. A. Stewart.

Eriophorum latifolium (Hoppe.) District 8. Bog on the north-west side of Urrisbeg mountain, near Roundstone, growing with *Erica mediterranea*, 1869; A. G. M.

Obs. *Eriophorum alpinum* (Linn.) Was announced in 1866, as having been gathered by Mr. Ryder on the north shore of Gurthaveha Lake, near Millstreet, county Cork (Dublin Nat. Hist. Soc. Proceedings, vol. v., p. 112), but it is now believed that some mistake was made, as the plant cannot be found in the alleged locality. (See Report of British Association, 1871, Section D, p. 129.)

Carex dioica (Linn.) District 10. By the River Derg in Tyrone; S. A. Stewart.

C. pulicaris (Linn.) District 3. Black Bog near Carlow; R. Clayton Browne. District 10. Castle Derg, Tyrone; S. A. Stewart.

C. arenaria (Linn.) District 6. Great Island of Aran; H. C. Hart.

C. divisa (Huds.)—5. Nearly extinct in the station discovered by D. M., but two large and flourishing patches were found (1871) in a damp meadow close to the Glass Works on the north bank of the Liffey; A. G. M.

C. vulpina (Linn.) District 6. In all three Isles of Aran; H. C. Hart. District 7. On margins of stony lakes near Parsonstown; M. Dowd.

C. muricata (Linn.)—2. Not rare about Middleton and Buttevant; Rev. T. Allin.—4. Fassaroe, near Bray; R. M. Barrington. District 12. Sparingly at Macedon Point, Belfast Bay, with *Hypericum hirsutum;* S. A. Stewart.

C. divulsa (Good.)—1. Muckross, Killarney; A. G. M. Near Bantry; Rev. T. Allin. District 3. Browne's Hill, Carlow; R. Clayton Browne.—5. Near Feltrim Hill; Castleknock and Celbridge; A. G. M.

C. teretiuscula (Good.)—7. Plentiful in a large bog near Multyfarnham, Westmeath; D. M.—9. Bog near Clonhugh railway station;

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W. T. Dyer.—12. Bog at the Giant's Ring (not Causeway), county Down; D. Orr.

C. paradoxa (Willd.)—7. Nearly extinct now at Ladiston, where it grows principally along the edges of ditches, on ground recently drained. With the tufted root of *C. paniculata*, this has fruit nearer in shape to that of *C. teretiuscula*, with which Dr. Hooker has, perhaps too hastily, combined it; D. M.

C. paniculata (Linn.) District 10. Near Clones, Fermanagh (Dr. Scott), Mackay Rar. The state with a narrow unbranched panicle is not rare, and grows intermixed with the typical plant.

C. axillaris (Good.) District 1. Salt marsh, near Kinsale! Isaac Carroll, 1866. This is the only locality in Ireland from which we have seen authentic specimens. *C. divulsa* has more than once been miscalled "*axillaris*."

C. remota (Linn.) District 3. Eastern slopes of Slieve Margy, Queen's Co., and near Newtownbarry, Carlow; R. Clayton Browne.

C. rigida (Good.) District 4. Top of Lugnaquillia, Wicklow; A. G. M.

C. pallescens (Lam.) District 2. Near St. Ann's, Blarney; R. Mills.—9. Near Drumod, Leitrim; W. T. Dyer.—15. Deer Park, Glenarm; R. Tate.

C. limosa (Linn.)—1. Base of Sugar-loaf Mountain, Glengarriff; Rev. T. Allin. District 2. Bluefort Bog, Newmarket; do.

C. strigosa (Huds.) District 12. Belvoir Park; Belfast Nat. Field Club Report, 1871.

C. punctata (Gaud.)—1. Plentiful in boggy or marshy meadows near Ardgroom, at some little distance from the sea; A. G. M.

C. distans (Linn.) District 6. Great Aran Island; H. C. Hart.

C. lævigata (Sm.) District 3. Ryland's Wood, near Newtownbarry, Carlow; R. Clayton Browne.

C. Pseudo-cyperus (Linn.)—2. Dunsfort Bog, Middleton; Rev. T. Allin.—4. Marshes near Newcastle, Wicklow; A. G. M.

C. filiformis (Linn.) Pool near Glengarriff; Rev. T. Allin.

C. hirta (Linn.) District 3. Sandbrook near Ballon; R. Clayton Browne.

C. vesicaria (Linn.)—2. Rather rare; but occurs near Middleton and Buttevant; Rev. T. Allin.—9. Near Drumod, Leitrim; W. T. Dyer.—10. Common in Fermanagh (Dr. Scott) Mackay Rar.

C. paludosa (Good.) District 1. Caha river, Dunmanway, and District 2. Dunsfort Bog, Middleton; Rev. T. Allin. District 4. Marshes near the Murrough of Wicklow; A. G. M. District 7. Bog near Multyfarnham; A. G. M.

C. riparia (Curt.) District 7. Near Portumna; D. M. No. 5 to be added in the line of Districts.

Phalaris arundinacea (Linn.) District 3. Banks of the Barrow below Carlow; R. Clayton Browne. District 7. Parsonstown; M. Dowd.

Phleum arenarium (Linn.)—4. Sandhills at Arklow and north-

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wards; A. G. M.—5. Gormanstown, Meath; A. G. M. District 6. Great Island of Aran; H. C. Hart.

P. pratense (Linn.) District 3. Browne's Hill, Carlow; R. Clayton Browne. District 7. Near Parsonstown; M. Dowd.

Alopecurus pratensis (Linn.) District 7. Parsonstown; M. Dowd. District 10. Enniskillen, Fermanagh; S. A. Stewart.

A. geniculatus (Linn.) District 3. In Carlow; R. Clayton Browne.

Nardus stricta (Linn.) District 3. On Mount Leinster; R. Clayton Browne. District 7. Near Parsonstown; M. Dowd. District 10. Sperrin Mountains, Tyrone; S. A. Stewart. Ascends to 3200 feet on Carn Tual; A. G. M.

Milium effusum (Linn.)—12. Dundonald Glen, and Stormont Glen, Down; S. A. Stewart.

Calamagrostis Epigejos (Roth). District 6. Between the road and the sea, near Killeany, Great Aran Island, in two places only; H. C. Hart, 1869.

C. stricta (Nutt.)—10. Scawdy Island, near Maghery, is in Tyrone, not Armagh; S. A. Stewart. Hence, Armagh must be erased from the list of counties.—12. Shores of Lough Beg, one mile south of Church Island; R. Tate.

Agrostis canina (Linn.)—1. Ascends to nearly the top of Carn Tual, say 3400 feet; A. G. M. *Agrostis vulgaris* to 3200 feet on same mountain.

Holcus mollis (Linn.) District 3. Browne's Hill, Carlow; R. Clayton Browne.

Aira cæspitosa (Linn.)—1. A small form of this plant, which, except that the florets are not viviparous, Dr. Syme considers undistinguishable from the Scottish *A. alpina*, grows near the summit of Carn Tual; A. G. M.

A. uliginosa (Weihe). District 8. Found in July, 1869, growing plentifully on the swampy borders of Lough Creg-duff, near Roundstone; and afterwards traced by me in many localities through the district extending from Clifden to Kilkieran, Connemara; A. G. M.

Trisetum flavescens (Beauv.) District 7. Parsonstown; M. Dowd. —12. On a dry bank in the Bog Meadows, Belfast, and by the Laggan Canal near Moira, Antrim; S. A. Stewart.

Avena pubescens (Linn.) District 7. Parsonstown, not common M. Dowd.

Melica uniflora (Retz). District 7. Woods about Parsonstown; M. Dowd.

Poa compressa (Linn.) District 10. On the bank by roadside, half a mile from Portadown towards Lurgan! W. M'Millen. District 12. Roadside between Ballycastle and Ballintoy; D. M.

Glyceria aquatica (Sm.) District 3. In the Barrow below Carlow; R. Clayton Browne.

Sclerochloa distans (Bab.)—12. At Larne and at the upper end of Belfast Bay; S. A. Stewart.

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S. Borreri (Bab.) The opinion expressed as to the possible parentage of this grass must be retracted, or, at least, qualified, since only *S. distans* and *S. maritima* grow along with it in the North Lots, Dublin.

†*S. procumbens* (Beauv.) District 12. On Albert Quay, Belfast! in small quantity, and in one place only; S. A. Stewart. This grass has not lately been gathered near Dublin, and it is believed that *S. Borreri* was mistaken for it in the metropolitan district. *S. procumbens* seems very rare, and is open to some suspicion of having been introduced both at Cork and Belfast, which are the only two Irish localities.

S. rigida (Link). District 3. Near Browne's Hill, Carlow; R. Clayton Browne. District 7. Walls and roadsides near Parsonstown; M. Dowd.—12. By the sea, two miles north of St. John's Point, Down; S. A. Stewart.

S. loliacea (Woods). District 6. In all three Isles of Aran; H. C. Hart.

Catabrosa aquatica (Presl.) District 3. In Carlow; R. Clayton Browne.

[*Cynosurus echinatus* (Linn.) Came up in a field at Sandbrook, Carlow, in 1868; R. Clayton Browne].

Festuca uniglumis (Sol.) District 4. Sandhills from Courtown to Arklow, and northwards to Rockfield, Wicklow; A. G. M.

Festuca sciuroides (Roth). District 7. Walls at Parsonstown, but rare; M. Dowd.

F. Myurus (Linn.) District 1. Walls at Dingle and Milltown, Kerry; A. G. M.—2. Common at Avoncore, and occurs in both East and West Cork; Rev. T. Allin. District 4. Springhill, Enniscorthy! J. Morrison. Walls at Arklow and Wicklow; A. G. M. District 6. Near Ballyvaughan, Clare; Rev. T. Allin. Probably not unfrequent in the middle and south of Ireland.

F. arundinacea (Schreb.) District 7. Banks of the Brosna and other places near Parsonstown; M. Dowd.

Bromus erectus (Huds.) District 3. Railway banks near Portarlington, etc., towards Cork, extending probably to District 7; A. G. M. District 4. Banks on north side of Bray Head; A. G. M.

Triticum pungens (Pers.) Districts 4 and 5. Frequent on the Murrough of Wicklow, and on banks and along ditches on the coast of probably all Ireland. A large form found on the shore near Rush has for many years been cultivated in the Botanic Gardens, Glasnevin, under the name of "T. Moorei."

‡*Lolium temulentum* (Linn.) District 10. In Tyrone; Dr. Sigerson.

Hordeum pratense (Huds.) District 6. Meadows near Limerick; I. Carroll.

Equisetum hyemale (Linn.) District 6. At Lough Atalia in the Great Island of Aran; H. C. Hart. District 10. Banks of the Colebrooke river, Fermanagh; T. O. Smith. District 11. Little Bins, Fanet; H. C. Hart. The plant of the Dundrum sandhills probably should be referred to "E. Moorei."

E. Moorei (Newman, 1853). Milde, the highest recent authority,

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places this plant under *E. hyemale* as *var. Schleicheri* (Milde, 1858); but, as already observed in Seemann's "Journal of Botany," vol. vi., *E. Moorei* is the older name, and should be retained, in preference also to *var. paleaceum* Schleicher, adopted by Dr. Hooker in the "Student's Flora," but which has been rejected by Milde as ambiguous.—4. Sandhills north of Courtown, Wexford. Sandhills near Arklow, and thence northwards in many places along the coast extending to near Seapark House, three miles South of Wicklow.

E. trachyodon (A. Braun). *E. Mackaii* (Newman). District 2. Near St. Ann's, Blarney! (R. Mills); Rev. T. Allin, 1871. This will extend the range to South of Ireland.

E. Wilsoni (Newman). District 7. Canal near Mullingar; R. W. Rawson. District 8. Shores of Lough Bulard, near Roundstone; A. G. M. District 9? Shore of Lough Carra, Mayo; J. Ball. Probably this, rather than *E. trachyodon.*

Polypodium Phegopteris (Linn.) District 2. Rocks above Gurthaveha Lake, near Millstreet, with *Asplenium viride;* A. G. M.—8. Abundant in Glan, south of Maam Bay, Lough Corrib, Galway, and in the Coomb, south-west of Dromin Chapel, Mayo; G. H. Kinahan.—10. Deer Park, Brookboro'; Rev. S. A. Brenan.

P. Dryopteris (Linn.)—9. Near Lough Talt! on the Ox Mountains, Sligo; R. Warren.

Lastrea Thelypteris (Presl). District 4. Marshes in Glencree; Mackay, Cat. Ir.—5. At Lullybeg between Robertstown and Rathangan, in Kildare; Mrs. Cooke Trench. Drumconrath, Meath; Rev. S. A. Brenan.—7. Rockingham, Roscommon; D. M.—10. Near Caledon, Armagh; E. Wallis.

L. Oreopteris (Presl). District 3. Abundant at foot of Mount Leinster, and on the banks of the Upper Barrow; R. Clayton Browne.

Polystichum aculeatum (Roth). District 3. At Browne's Hill and other places in Carlow, but rare; R. Clayton Browne.

Cystopteris fragilis (Bernh.)—2. Rocks above Gurthaveha Lake, near Millstreet; A. G. M. Dunmore East, Waterford; H. Fitzsimons. District 3. A single plant at Pollerton, near Carlow, R. Clayton Browne. —5. On the bridge at Monasterevan; Mrs. Cooke Trench.

Asplenium lanceolatum (Huds.)—1. On an old tower at Reencahirne and on Ballycarbery Castle, near Caherciveen; Rev. S. Madden.

A. Adiantum-nigrum (Linn.); *var. acutum* (Bory.)—1. By the River Shannon, near Corgrig, Foynes! Miss C. G. O'Brien. District 8. Frequent in Connemara and south-west Mayo; G. H. Kinahan.

A. viride (Huds.)—2. Rocks above Gurthaveha Lake, near Millstreet; A. G. M.—8. Lissoughter, Glenlosh, and Bengower, Galway, and south-west of Dromin Chapel, Mayo; G. H. Kinahan.—11. In a gully on the north side of Slieve League! H. W. D. Dunlop.

Adiantum Capillus-Veneris (Linn.)—1. Sea-wall under Mount Trenchard, near Foynes; Rev. L. O'Brien.—8. Hill north-north-east of Sheffey, five miles from Killery Harbour; G. H. Kinahan. District 11. In one place on the cliffs of Slieve League (found by Rev. L. O'Brien); Rev. R. J. Gabbett.

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Hymenophyllum tunbrigense (Sm.) District 10. In a glen between Aughnacloy and Augher, Tyrone; E. Waller. On the mountains near Florencecourt, with *H. Wilsoni;* Rev. S. A. Brenan.

H. Wilsoni (Hook.) District 3. On Mount Leinster; R. Clayton Browne.

Ophioglossum vulgatum (Linn.) District 11. Fanet and by Lough Swilly; H. C. Hart.

Isoetes lacustris (Linn.) District 2. In Gurthaveha Lake, near Millstreet; A. G. M.—4. A long slender form, some of whose fronds measured 26 inches, is in autumn washed ashore from deep water at Upper Lough Bray. Milde gives this Lake as a station for *I. echinospora,* which, however, I have not succeeded in finding there; A. G. M. In Lough Luggelaw; D. Orr.

Lycopodium clavatum (Linn.) District 3. On Mount Leinster; R. Clayton Browne.—10. On the mountains of Mourne; Harris's "Down," No. 19.

L. Selago (Linn.) District 3. Near Mount Leinster; R. Clayton Browne.

L. selaginoides (Linn.) District 3. Black Bog, near Carlow; R. Clayton Browne.

LIST OF PAPERS RELATING TO THE FLORA OF IRELAND, PUBLISHED FROM 1865 TO 1872.

Andrews, W. On some Irish Saxifrages. Dublin Nat. Hist. Soc. Proceedings, vi., p. 84 (1871).

Allin, Rev. T. Irish Plants. Seemann's Journal of Botany, ix., p. 18 (1871).

—— Plants of County Cork. Seemann's Journal of Botany, ix., pp. 111 and 173 (1871).

Barrington, R. M. On some plants recorded from Ireland. Trimen's Journal of Botany, i., p. 108 (1872).

Dowd, M. *Malva borealis,* near Dublin. Seemann's Journal of Botany, viii., p. 323 (1870).

Foot, F. J. *Hymenophyllum Wilsoni,* near Boyle, etc. Dublin Natural History Society Proceedings, v., p. 66 (1865-6).

Kinahan, G. H. On Ferns observed in West Connaught and Southwest Mayo. Dublin Natural History Society Proceedings, vi., p. 67 (1871).

Moore, D., Ph. D. *Eriophorum alpinum,* and *Acorus Calamus,* found in Ireland. Dublin Natural History Society Proceedings, v., p. 112 (1866-7), and Seemann's Journal of Botany, v., p. 46 (1867).

—— *Trifolium glomeratum* in Ireland. Seemann's Journal of Botany, viii., p. 192 (1870).

—— On a form of *Salix Arbuscula* (afterwards corrected to *S. Grahami,* ix., p. 300), in Ireland. Seemann's Journal of Botany, viii., p. 209 (1870).

—— Notes on some Irish Plants. Seemann's Journal of Botany, ix., p. 299 (1871).

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D. Moore and A. G. More. On the Climate, Flora, and Crops of Ireland. International Botanical Congress Report, 1866.

More, A. G. *Trifolium subterraneum* in Ireland. Seemann's Journal of Botany, vi., p. 208 (1868).

—— Note on *Equisetum Moorei*, etc. Seemann's Journal of Botany, vi., p. 253 (1868).

—— *Hippophae rhamnoides* in Ireland. Seemann's Journal of Botany, vi., pp. 255 and 373 (1868).

—— Discovery of *Scirpus parvulus* in Ireland. Seemann's Journal of Botany, vi., pp. 254 and 321 (1868).

—— Discovery of *Aira uliginosa* at Roundstone. Seemann's Journal of Botany, vii., p. 265 (1869.)

—— On *Eriophorum alpinum* as a British Plant. British Association Report, 1871.

Sigerson, G., M. D. Additions to the Flora of the tenth Botanical District, Ireland. Royal Irish Academy Proceedings, Sec. Ser., vol. ii., Science, p. 192 (1872).

Smith, W. G. Discovery of *Cuscuta Trifolii* in Ireland. Dublin Natural History Society Proceedings, v., p. 198 (1868–9).

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NOTE.—According to information lately received, it seems that *Plantago media* has some claims to be considered naturalized in the locality where Mr. Douglas observed it, and which he describes as not far from Malone's Gravel Pit, to the north of Straffan, where the plant formed quite a carpet, and the pink anthers were very conspicuous.

THE END.

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